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No. 39] NEW DELHI, SATURDAY, SEPTEMBER 26, 1992 (ASVINA 4, 1914)

इस भाग में भिन्न पृष्ठ संख्या दी जाती है जिससे कि यह अलग संकलन के रूप में रखा जा सके
[Separate paging is given to this Part in order that it may be filed as a separate compilation]

भाग III—खण्ड 2 [PART III—SECTION 2]

पेटेन्ट कार्यालय द्वारा जारी की गई पेटेन्टों और डिजाइनों से सम्बन्धित अधिसूचनाएं और नोटिस
[Notifications and Notices Issued by the Patent Office relating to Patents and Designs]

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PATENTS AND DESIGNS

Calcutta, the 26th September 1992

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Calcutta-700 020.

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पेटेंट कार्यालय

एकस्व तथा अभिकल्प

कलकत्ता, विनांक 26 सितम्बर 1992

पेटेंट कार्यालय के कार्यालयों के द्वारा एवं क्षेत्राधिकार

पेटेंट कार्यालय का प्रधान कार्यालय कलकत्ता में अवस्थित है तथा उत्तरी एवं मध्य भारत के कार्यालय हैं, जिनके ग्रामीण क्षेत्राधिकार जौन के आधार पर निम्न रूप में प्रदर्शित हैं :—

पेटेंट कार्यालय शाखा, टॉडी इस्टटे, तीसरा तल, लोबर परले (पश्चिम), नई-400013।

गुजरात, महाराष्ट्र तथा मध्य प्रदेश राज्य क्षेत्र एवं संघ शासित क्षेत्र गोआ, दमन तथा दिव एवं दादरा और नागर हैं।

तार पता—“पेटेंटफिस”

पेटेंट कार्यालय शाखा, एक सं. 401 से 405, तीसरा तल, नगरपालिका बाजार भवन, सरस्वती भार्ग, करोल बाग, नई दिल्ली-110005।

हरियाणा, हिमाचल प्रदेश, जम्मू तथा कश्मीर, पंजाब, राजस्थान तथा उत्तर प्रदेश राज्य क्षेत्रों एवं संघ शासित क्षेत्र चंडीगढ़ तथा दिल्ली।

तार पता—“पेटेंटोफिक्स”

THE PATENT OFFICE

Calcutta, the 26th September 1992

APPLICATION FOR PATENTS FILED AT THE HEAD OFFICE 234/4, ACHARYA JAGADISH BOSE ROAD, CALCUTTA-20

The dated shown in the crescent branch are the dates claimed under section 135, of the Patents Act, 1970.

18th August 1992

594/Cal/92. Siemens Aktiengesellschaft. Impregnatable arrangement comprising a supporting body and winding elements.

595/Cal/92. Staedtler & Uhl. Method for cleaning a Needle bar, in particular a top comb for textile machinery, and Needle bars for putting the method into practice.

596/Cal/92. Siemens Aktiengesellschaft. Circuit Arrangement.

597/Cal/92. Thyssen Stahl AG. Process for the Desulphurization treatment of pig iron melts.

19th August 1992

598/Cal/92. Bhanu Prakash Vishwakarma. A process for the production of energy from the solar radiation.

पेटेंट कार्यालय शाखा,

61, बालाजाह रोड,

मुम्बई-600002।

आन्ध्र प्रदेश, कर्नाटक, केरल, तमिलनाडु राज्य क्षेत्र एवं संघ शासित क्षेत्र पार्सिड्वेरी, लक्ष्मीपुर्मिनिकाय तथा अमिनिदिवि द्वीप।

तार पता—“पेटेंटफिस”

पेटेंट कार्यालय (प्रधान कार्यालय)

निजाम पैलेस, फिल्मीय बहुतलीय कार्यालय,

भवन, 5, 6 तथा 7वां तल,

234/4, आचार्य जगदीश बोस रोड,

कलकत्ता-700020।

भारत का अधिकार क्षेत्र

तार पता—“पेटेंट्स”

पेटेंट अधिनियम, 1970 या पेटेंट नियम, 1972 में अपेक्षित सभी आवेदन पत्र, सूचनाएं, विवरण या अन्य प्रक्रेष्ट पेटेंट कार्यालय के केवल उपर्युक्त कार्यालय में ही प्राप्त किए जाएंगे।

शुल्क :—शुल्कों की अदायशी या तो नकद की जाएगी अथवा उपर्युक्त कार्यालय में नियंत्रक को भुगतान योग्य धनादेश अथवा डाक आदेश या जहां उपर्युक्त कार्यालय अवस्थित है; उस स्थान के अनुसूचित बैंक से नियंत्रण को भुगतान योग्य बैंक ड्रॉफ्ट अथवा चैक द्वारा की जा सकती है।

599/Cal/92. Asta Medica Aktiengesellschaft. New Phthalazines containing an ether or thioether group in the 1-position and a process for their preparation.

600/Cal/92. American Cyanamid Company. Chemiluminescent lighting element.

601/Cal/92. James Holdsworth & Brothers Limited. Method of Fixing card Clothing to carrier cylinder.

602/Cal/92. Unilever PLC. Dewatering slurries.

20th August 1992

603/Cal/92. Minato company, Ltd. & The Green Cross Corporation. Processes including germ-destroying process, germicidal products and their preparation method, fumigant and fumigation method, as well as germicidal gas compositions, their preparation method and apparatus therefor. [Divided out of No. 947/Cal/90; antedated to 12/11/1990].

604/Cal/92. Mr. Nasir Uddin Gaycn. Supper vacuum pump.

605/Cal/92. Shvamsunder Taparia, Jaiprakash Taparia. An improved brake magnet assembly for an energy meter.

606/Cal/92. Shvamsunder Taparia, Jaiprakash Taparia. An improved brake magnet for use in an energy meter.

607/Cal/92. Sri Jonmejoy Maity. Process of Adding extra forcing power to get more speed of wheels.

24th August 1992

- 608/Cal/92. E.I. Du Pont De Nemours and Company. Chlorine-free fluorocarbon Refrigerant.
- 609/Cal/92. E.I. Du Pont De nemours and company. Catalytic process for producing CCL CFs.
- 610/Cal/92. E.I. Pont De Nemours and Company. Gem-Dihydropolyfluoro alkanes and Monohydropoly-fluoro-alkanes processes for their production, and news of gem-dihydropolyfluoro alkanes in Cleaning Compositions.
- 611/Cal/92. Santrade Ltd. Sealing Arrangement for a running belt.
612. Cal/92. Hoechst Aktiengesellschaft, Imidoperoxy-carboxylic acids, processes for their preparation and their use. [Divided out of No. 472/Cal/89 antedated to 20-06-1989].
- 613/Cal/92. Phillips Petroleum Company. Polyethylene Blends.

COMPLETE SPECIFICATION ACCEPTED

Notice is hereby given that any person interested in opposing the grant of patents on any of the Applications concerned, may, at any time within four months of the date of this issue or within such further period not exceeding one month applied for on Form 14 prescribed under the Patents Rules, 1972 before the expiry of the said period of four months, given notice to the Controller of Patents on the prescribed Form 15, of such opposition. The written statement of opposition should be filed alongwith the said notice or within one month of its date as prescribed in Rule 36 of the Patents Rules, 1972.

The classifications given below in respect of each specification are according to Indian Classification and International Classification.

A limited number of printed copies of the specifications listed below will be available for sale from the Government of India Book Depot, 8, Kiran Sankar Roy Road, Calcutta, in due course. The price of each specification is Rs. 2/- (postage extra) Requisition for the supply of the printed specifications should be accompanied by the number of the specifications as shown in the following list.

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स्वीकृत सम्पूर्ण विनिदेश

सहददवारा यह सूचना दी जाती है कि सम्बद्ध आवेदनों में से किसी पर पेटेंट अनुदान का विरोध करने के इच्छुक कोई व्यक्ति, इसके निर्गम की हिथ से 4 महीने या अधिक ऐसी अवधि जो उक्त 4 महीने की अवधि की समाप्ति के पूर्व पेटेंट नियम, 1972 के तहत विहित प्रपत्र 14 पर आवेदित एक महीने की अवधि से अधिक न हो, के भीतर कभी भी गियंबक, एकस्वर को ऐसे विरोध की सूचना विहित प्रपत्र 15 पर दे सकते हैं। विरोध संबंधी लिखित बहतव्य, उक्त सूचना के साथ अथवा पेटेंट नियम, 1972 के नियम 36 में यथा विहित इसकी तिथि के एक महीने के भीतर ही फाइल किए जाने चाहए।

“प्रत्येक विनिदेश के संदर्भ में नीचे दिए वर्गीकरण, भारतीय वर्गीकरण तथा अंतर-राष्ट्रीय वर्गीकरण के अनुरूप हैं”।

नीचे सूचीगत विनिदेशों की सीमित संख्यक मुद्रित प्रतियाँ, भारत सरकार बुक डिपो, 8, किरण शंकर राय रोड, कलकत्ता में विक्रय हते यथा समय उत्तराधि होंगी। प्रत्येक विनिदेश का मूल्य 2/- रु. है। (अस्तिरिक्त डाक खर्च)। मुद्रित विनिदेश की आपूर्ति हते भाग-पत्र के साथ निम्नलिखित सूची यथा प्रदर्शित विनिदेशों की संख्या संलग्न रहनी चाहिए।

रूपांकन (चित्र आरेखों) की फोटो प्रतियाँ यदि कोई हों, के साथ विनिदेशों की टंकित वथवा फोटो प्रतियाँ की आपूर्ति पेटेंट कार्यालय, कलकत्ता द्वारा विहित लिप्यान्तरण प्रभार जिसे उक्त कार्यालय से पत्र-व्यवहार द्वारा सुनिश्चित करने के उपरांत उसकी अदायगी पर की जा सकती है। विनिदेश की पृष्ठ संख्या के साथ प्रत्येक स्वीकृत विनिदेश के सामने नीचे वर्णित चित्र आरेख कागजों को जोड़कर उसे 4 से गुणा करके; (क्योंकि प्रत्येक पृष्ठ का लिप्यान्तरण प्रभार 4/- रु. है) फोटो लिप्यान्तरण प्रभार का परिकलन किया जा सकता है।

Ind. Cl. : 85 G.

171361

Int. Cl. 4 : F27D 3/00.

APPARATUS FOR CHARGING A SMELTING FURNACE

Applicant: SOCIETE NATIONALE D'ETUDE ET DE CONSTRUCTION DE MOTEURS D'AVIATION "S.N.E.C.M.A." OF 2, BOULEVARD VICTOR, 75015 PARIS, FRANCE, A FRENCH COMPANY.

Inventors: JEAN-CLAUDE DORIATH, GEORGES M.C.A. GAUJE AND JACQUES L.E. GRAMMAGNAC.

Application for Patent No. 311 DEL 87 filed on 13 Apr 1987.

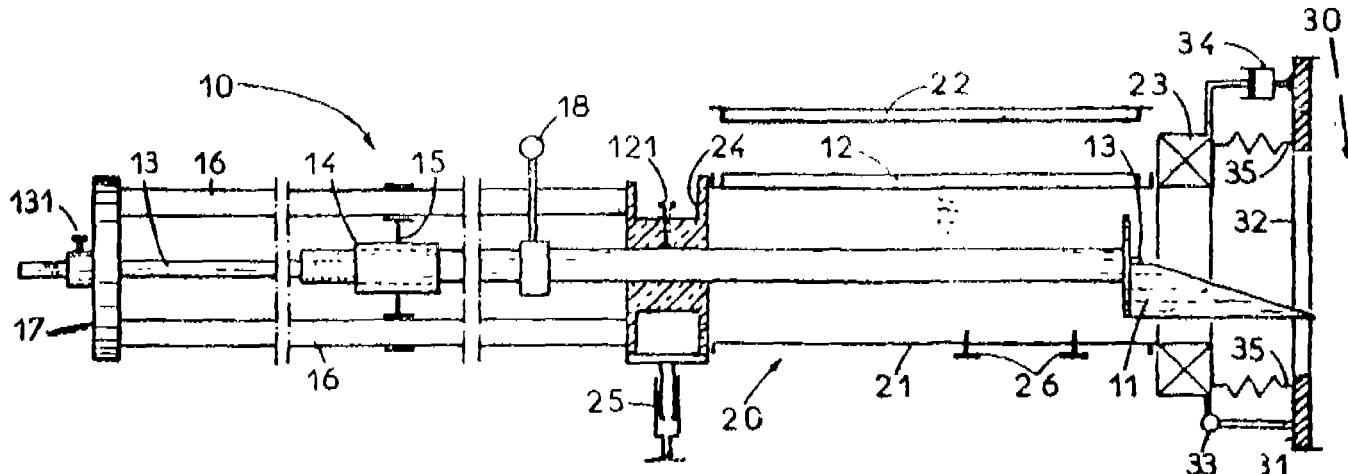
Appropriate Office for Opposition Proceeding (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

4 Claims

Apparatus for charging a smelting furnace with a cylindrical removable crucible (c), having a compact cylindrical smelting charge (L), the apparatus comprising a scoop (11) in the form of a trough which is arcuate in cross-section, said scoop (11) being intended for the introduction of the crucible (c) and of the charge (L) into the furnace when the latter is tilted into a horizontal, loading, position and for the extraction of the crucible (c) after casting, a rectilinear shaft (12) at the end of which the scoop (11) is secured, the shaft (12) and the scoop (11) being, substantially co-axial, guide means (24, 14, 15, 16) for maintaining the shaft (12) substantially in horizontal alignment with the furnace tilted into the horizontal position, means (18) for displacing the shaft (12) in the direction of its axis, said guide means (24, 14, 15, 16) and said displacing (18) thus enabling the scoop (11) to be spaced from the furnace tilted into its horizontal position, to place the crucible (c) and the charge (L) therein and to introduce the crucible (c) into the furnace or to remove said crucible (c) therefrom, characterised in that the cross-section of the scoop (11) has an internal radius being at least equal to one half of the diameter of the charge (L), outer radius of the scoop (11) being at least equal to one half of the diameter of the interior of the crucible (c) and actuating means (13) connected to said shaft (12) for giving the shaft (12) a rotational movement about its axis to facilitate placing of the charge (L) in the scoop (11), inserting the

scoop (11) with said charge (L) into the crucible (c) and when the scoop (11), the charge (L) and the crucible (c)

are inserted into the furnace, to tilt without substantial shock the crucible (c) and the load by rotation of the scoop (11)



(Comp. Specn. 14 pages.)

Drawg 2 sheets

Ind. Cl. ; 40 B.

171362

Int. Cl⁴ : B01J 21/04 & 21/12.

PROCESS FOR THE PREPARATION OF A CATALYST COMPOSITE MATERIAL.

Applicant: COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAFI MARG, NEW DELHI-110 001, INDIA, AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT (ACT XXI OF 1860).

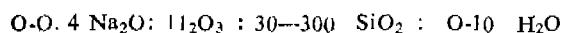
Inventors: SUBRAMANIAN SIVASANKER & PAUL RATNASAMY.

Application for Patent No. 316 DEL 87 filed on 13 APR 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules 1972) Patent Office Branch, New Delhi-110 005.

5 Claims

A process for the preparation of a catalyst composite material useful for the dewaxing of petroleum fractions containing metallosilicate having a composition in terms of mole ratio of oxides formula :



where it can be iron, lanthanum, aluminium, boron or mixtures thereof and which may contain in addition one or two metals from the group zinc, platinum, palladium, nickel, zinc or mixtures thereof, which comprises reacting an aqueous salt solution of the metal represented by it, silica an alkali metal and sulphuric acid with a tetraalkyl ammonium salt of formula : $R^1_x R^2_y N^+ Z^-$ to form a gel, wherein R^1 and R^2 are alkyl groups containing 2-4 carbon atoms, R^1 may or may not be the same as R^2 , the values of x and y vary between 1 and 3 and may or may not be the same but the sum of the values of x and y equals 4 and Z is chloride or bromide ions, heating the resulting gel at 100°C to 200°C for 5 to 500 hours in an autoclave, filtering, drying and calcining and mixing the resultant solid material with aluminium oxide extruding the mixture into extrudates and incorporating therein one or two metals from the group platinum, palladium, zinc & nickel by treating with a salt of zinc, platinum, nickel or palladium by ion exchange method or by impregnation

Process as claimed in claim 1, wherein the salt of formula $R^1_x R^2_y N^+ Z^-$ used is triethyl-n butyl ammonium bromide or chloride.

(Comp. Specn. 26 pages)

Ind. Cl. 40 B.

171363

Int. Cl. 4 B01J 21/04 & 21/12.

PROCESS FOR THE PREPARATION OF A CATALYST COMPOSITE MATERIAL.

Applicant: COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAFI MARG, NEW DELHI-110001, INDIA, AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT (ACT XXI OF 1860).

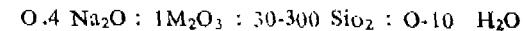
Inventors: SUBRAMANIAN SIVASANKER PAUL RATNASAMY.

Application for Patent No. 325 DEL 87 filed on 15 APR 1987.

Appropriate Office for Opposition proceeding (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

5 Claims

A process for the preparation of a catalyst composite material useful for the fluid catalytic cracking of petroleum fractions selectively to middle distillates and having a composition, in terms of mole ratios of oxides of formula :



where M is iron, lanthanum, aluminium, boron or mixtures thereof comprising reacting an aqueous solution of sodium silicate, iron, lanthanum, aluminium, boron or mixtures thereof and sulphuric acid and a tetra-alkyl ammonium salt of formula $R^1_x R^2_y N^+ Z^-$ to form a gel wherein R^1 and R^2 are alkyl groups containing 2-4 carbon atoms, R^1 may or may not be same as R^2 , the values of x and y vary between 1 and 3 and may or may not be the same but the sum of values of x and y equals 4 and Z is bromide or hydroxide ions, heating the resultant gel at 100 to 200°C for 5 to 500 hrs, in an autoclave, filtering, drying and mixing the resultant solid with an aqueous slurry of a mixture of a faujasite zeolite such as herein described and a suitable binder such as herein described and spray drying the resultant slurry mixture to obtain the final catalyst composite material.

(Complete Specification 13 Pages).

Ind. Cl. : 40 B.

171369

Int. Cl. : B01J 21/04 & 23.72.

A METHOD OF MAKING A PRECURSOR FOR A CATALYST.

Applicant : DYSON REFRactories LIMITED, A BRITISH COMPANY, OF 381 FULWOOD ROAD, SHEFFIELD S10 3GB, ENGLAND.

Inventor : RODNEY MARTIN SAMBROOK.

Application for Patent No. 697 DEL 87 filed on 10 AUG 1987.

Appropriate Office for Opposition proceeding (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

7 Claims.

A method of making a precursor for a catalyst, said precursor being the approximate formula, $(Cu+Zn)_xAl_xR_y(CO_3)_z+yOH_{12} + z(x+y)nH_2O$ where R is lanthanum, cerium or zirconium

x is not less than 1 and not greater than 4

y is not less than 0.01 and not greater than 1.5

n is approximately 4

and having a layer structure, said method comprising causing co-precipitation in solution of salts of the Cu, Zn, Al and the R element at substantially constant pH and temperature such as herein described by the addition of an alkali.

(Complete Specification 9 Pages).

Ind. Cl. 206 E LXII.

171365

Int. Cl. : H01L 23/00.

A METHOD FOR THE MANUFACTURE OF AN IMPROVED ELECTRONIC DEVICE BY PASSIVATING SHORT CIRCUIT DEFECTS IN A ELECTRONIC DEVICE.

Applicant : ENERGY CONVERSION DEVICES, INC., A CORPORATION OF THE STATE OF DELAWARE, U.S.A., OF 1675 WEST MAPOLE ROAD, TROY, MICHIGAN 48084, UNITED STATES OF AMERICA.

Inventors : PREM NATH, CRAIG VOGELI.

Application for Patent No. 712/DEL/87 filed on 17-8-87.

Appropriate Office for Opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

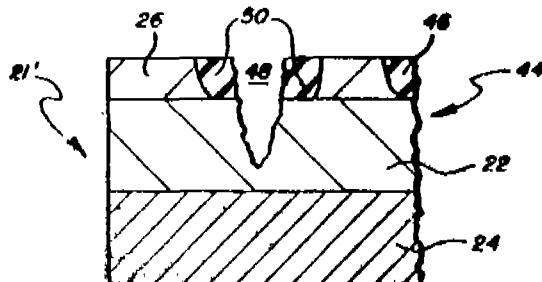
11 Claims.

A method for the manufacture of an improved electronic device by passivating short circuit defects in a electronic device having a thin film body having a superposed electrode comprised of a layer of electrically conductive material, said method comprising the steps of;

Contacting at least those portions of the electrode proximate said defects with a conversion reagent of the kind such as hereinbefore defined said reagent converting the electrically conductive electrode material to a material of higher electrical resistivity; and

activating said conversion reagent proximate said defects so as to facilitate conversion of the electrode material to the higher resistivity form, whereby said defect regions are

substantially electrically isolated from the remainder of said electrode.



(Complete Specification 40 Pages Drawing Sheets 5).

Ind. Cl. 150-C.

171366

Int. Cl. : F 16 B 7/00.

A MOUNTING DEVICE FOR SECURING A TAKE-OFF BRANCH TO A PRIMARY PIPE.

Applicant : PONT-A-MOUSSON S.A., A FRENCH COMPANY OF 91 AVENUE DE LA LIBERATION, 54000 NANCY, FRANCE.

Inventors : VINCENT MIGNET, PIERRE VIGNERON.

Application for Patent No. 726 DEL/87 filed on 19-8-1987.

Appropriate Office for Opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

10 Claims.

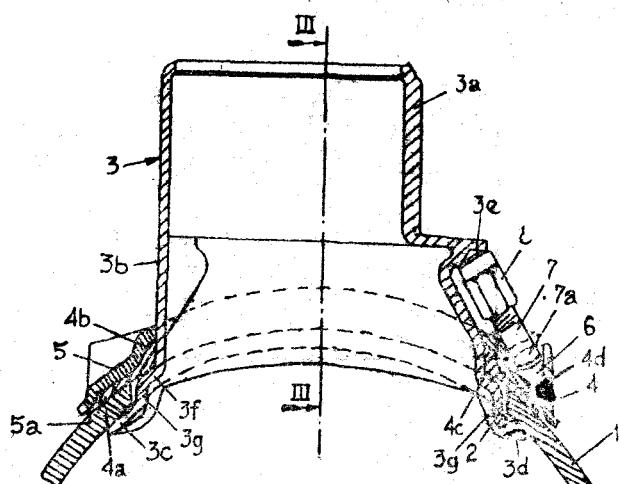
A mounting device for securing a take-off branch to a primary pipe (1) having an aperture (2) in a wall thereof, said device comprising :

(a) a hollow connection member (3) having a base portion (3b) extending outwardly through the pipe wall aperture, and two clamping tongues (3c, 3d) extending laterally outwardly from opposite lower edges of the base portion and engaging an inner surface of the pipe under opposite edges of the aperture,

(b) a deformable gasket (4) surrounding and seated against a lower region of the base portion, and overlying and seated against an outer surface of the pipe surrounding the aperture in the manner of a collar,

(c) a rigid saddle (5) disposed surrounding said lower region of the base portion of the connection member and overlying the gasket, and

(d) a plurality of circumferentially spaced axially extensible, adjustable tighteners (7, 8) disposed between the saddle and associated abutment supports (3e) on the connection member base portion for selectively urging the saddle axially of the connection member and towards the pipe and attendant pulling the connection member clamping tongues tightly against the inner pipe surface, thereby compressing the gasket in to sealing engagement with the lower region of the base portion and with the outer pipe surface surrounding the aperture.



(Complete Specification 11 Pages Drawing Sheets 2).

Ind. Cl. 32 E.

171367

Int. Cl. : C 08 F 114/06.

A PROCESS FOR THE PRODUCTION OF VINYL CHLORIDE POLYMERS.

Applicant : THE B.F. GOODRICH COMPANY, A NEW YORK CORPORATION, OF 3925 EMBASSY PARKWAY, AKRON, OHIO 44313, UNITED STATES OF AMERICA.

Inventor : ZAEV SHARABY.

Application for Patent No. 748/DEL/87 filed on 25th August, 1987.

Appropriate Office for Opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

4 Claims.

A process for the production of vinyl chloride polymers which comprises subjecting the corresponding monomers to conventional aqueous polymerization reactions characterized in that the polymerization medium contains a chain transfer composition comprising :

(a) at least one mercaptan chain transfer agent selected from the group consisting of 2-mercaptoethanol, 3-mercaptoethanol, thiopropylene glycol, thioglycerine, thioglycolic acid, thiohydroacrylic acid, thiolactic acid, thiomalic acid, isoctyl thioglycolate, n-butyl 3-mercaptopropionate, n-butyl thioglycolate, glycol dimercaptoacetate, trimethylpropane tritioglycolate and alkyl mercaptans, and

(b) at least one compound which is characterized by being (i) miscible with mercaptan, (ii) substantially insoluble in water, and (iii) non-polymerizable with said vinyl chloride, said compound being selected from the group consisting of polycaprolactone, polysilicone, polyester, esters of polyols, esters of polyacids, phenyl ethers, ethoxylated alkylphenols, sorbitan monostearate, sorbitan monooleate, and sorbitol esters fatty acids.

(Complete Specification 19 pages Drawing Sheet Nil).

Ind. Cl. 145 D XXXIV (4)

171368

Int. Cl. : D 21 D 7/08.

A MACHINE FELT IN PARTICULAR FOR PAPER-MAKING MACHINES.

Applicant : THOMAS JOSEF HEIMBACH GMBH & CO., OF A N GUT NAZARETH 73, D-5160 DUREN, WEST GERMANY.

Inventors : VERA HALKER & HELMUT HALKER

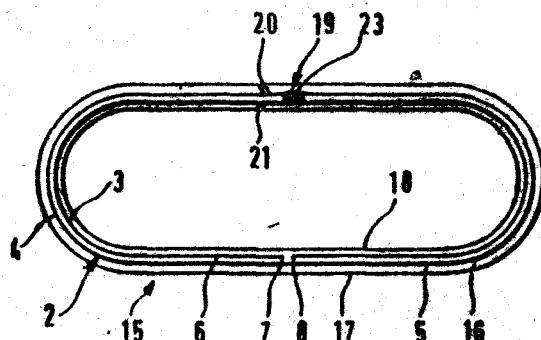
Application for Patent No. 810 DEL/87 filed on 16-9-1987.

Appropriate Office for Opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

12 Claims.

A machine felt, in particulars for papermaking machines, the machine felt comprising;

- (a) A support material (2);
- (b) said support material (2) being in several plies (5, 6, 13, 14) over its entire length,
- (c) the individual plies (5, 6, 13, 14) consist of at least one belt of a knit material,
- (d) the belt of material or at least one of the belts of material exceeds the length of the machine felt and overlaps itself while forming at least two complete plies (5, 6),
- (e) the plies of (5, 6, 13, 14) the support material (2) are joined by at least one pinned fiber web, characterised in that;
- (f) said plies (5, 6, 13, 14) of support material (2) of excess length have end segments (3, 4) of the particular belts (s) of material (2) which have been back folded on to an in-between, central segment (5) thereof and cover the entire remaining portion of the felt (1), and
- (g) spirals (11, 12) inserted into the folded back edges (9, 10) of said plies of the support material (1) on each tip side of the machine felt (1).



(Complieate Specification 13 Pages Drawing Sheets one)

Ind. Cl. 149 A XXVIII (4).

171369

Int. Cl. : E 21 B 43/00.

PROCESS FOR MANUFACTURING A PILE OF A PREDETERMINED DEPTH, PARTICULARLY ON THE OCEAN FLOOR.

Applicant : SOLETANCHE, A FRENCH COMPANY, OF 6 RUE DE WATFORD, 92005 NANTERRE, FRANCE.

Inventors : YVES LEGENDRE, HERVE BARTHELEMY.

Application for Patent No. 925/DEL/87 filed on 21-10-1987.

Appropriate Office for Opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-5.

2 Claims.

A process for manufacturing a pile of a predetermined depth, particularly on the ocean floor, comprising the steps consisting of :

(a) placing the bottom end of a pipe having an inner diameter and an outer diameter substantially in contact with

the ground, said pipe being intended to be the inner lining of the pile to be manufactured;

(b) holding said pipe while :

drilling downwardly from the surface of the ground below the pipe bottom to form a hole of a predetermined incremental portion of said predetermined depth, said hole having a diameter less than the inner diameter of the pipe;

the bottom end of said pipe to increase the diameter of said hole to

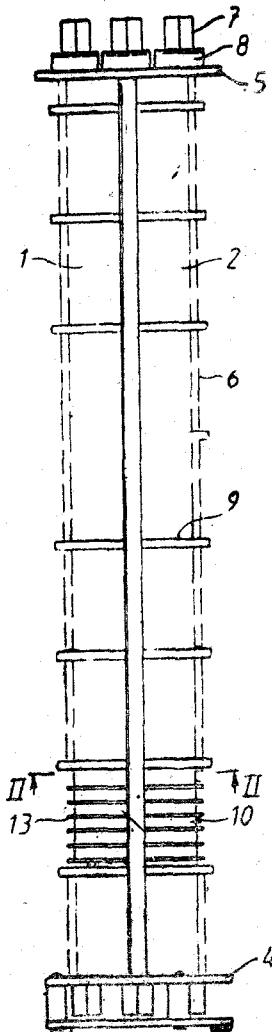
overdrilling upwardly from the bottom of the hole to a desired diameter larger than the outer diameter of the pipe;

(c) lowering the pipe to the bottom of said hole to said incremental portion of said predetermined desired depth;

(d) repeating in sequence steps ("b") and ("c") until the total predetermined depth is reached;

(e) filling with cement the annular space between the wall of the hole and the exterior surface of the pipe to thereby form the pile with said pipe fixed therein as an inner lining installed in the ground at said predetermined depth.

(Complete Specification 12 Pages Drawing Sheets 8).



Int. Cl. : 68 D LVII(3).

171370

Int. Cl. : H 01 T 4/00.

SURGE ARRESTER.

Applicant : ASEA BROWN BOVERI AB, A SWEDISH COMPANY OF S-721 83 VASTERAS, SWEDEN.

Inventors : BENGT JOHNNERFELT, BENGT THORS, PETER STENGARD.

Application for Patent No. 41/Del/88 filed on 18-1-1988.

Appropriate office for opposition proceeding (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

10 Claims

A surge arrester comprising an active part (1,2,3,) having at least one substantially cylindrical surge arrester element (10) of a metal oxide varistor material, arranged between two end plates, and a retaining part having at least one rod (6) of insulating material extending between the end plates for mechanically holding the said surge arrester together, characterised in that both the said active part and the said retaining part are exposed to the environment surrounding the surge arrester and are designed to provide an extended creep distance between the said end plates (4,5), said rod (6) being threaded or grooved in such a way that the creep distance along the rod between the end plates of the surge arrester is longer than for a corresponding rod with a smooth circular cylindrical shape.

(Complete Specification 11 Pages Drawing Sheet One)

Cl. 102 D.

171371.

Int. Cl. : F 15 C 3/00.

"SWITCHING ARRANGEMENT FOR HYDRAULIC DRIVE MEANS OF FULLTRACK VEHICLES".

Applicant : VOEST-ALPINE BERGTECHNIK GESELLSCHAFT M.B.H. OF A-8740 ZELTWEG, ALPINES-TRASSE 1, AUSTRIA.

Inventor : KARL LERCHBAUM.

Application No. 57/Cal/89 filed on January 19, 1989.

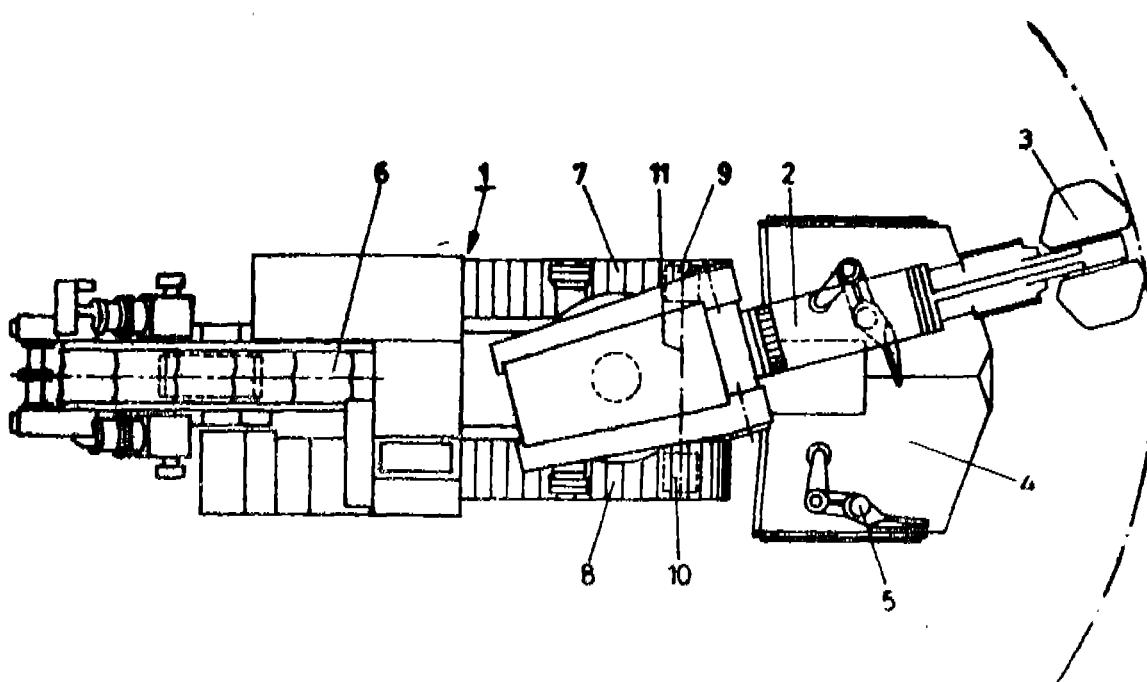
Appropriate office for opposition proceedings (Rule 4, Patent Rule 1972) Patent Office, Calcutta.

3 Claims

Switching arrangement for the hydraulic drive means of full-track vehicles, in which arrangement at least one drive motor is associated to each respective caterpillar at both sides of the longitudinal axis of the vehicle, characterized in that a common source (12) of pressurized fluid is provided for both drive motors (9, 10) at both sides of the longitudinal axis of the vehicle and in that a valve arrangement (16,17,18) is provided by means of which the drive motors (9,10) can be connected with the common source (12) of pressurized fluid in series for moving the cater-

pillars (7,8) in the same sense and in parallel for moving the caterpillars in mutually opposing sense and by means

of which each drive motor (9,10) can, if required, separately may be supplied with pressurized fluid.



(Compl. Specn. 11 pages.)

Drgns. 2 sheets)

Cl. 168 H F C

171372

Int. Cl.^A : G 08 B 5 00, 5/02.

"FOCUSING-CUM-INDICATING LIGHT WITH COLOUR CHANGING ARRANGEMENT".

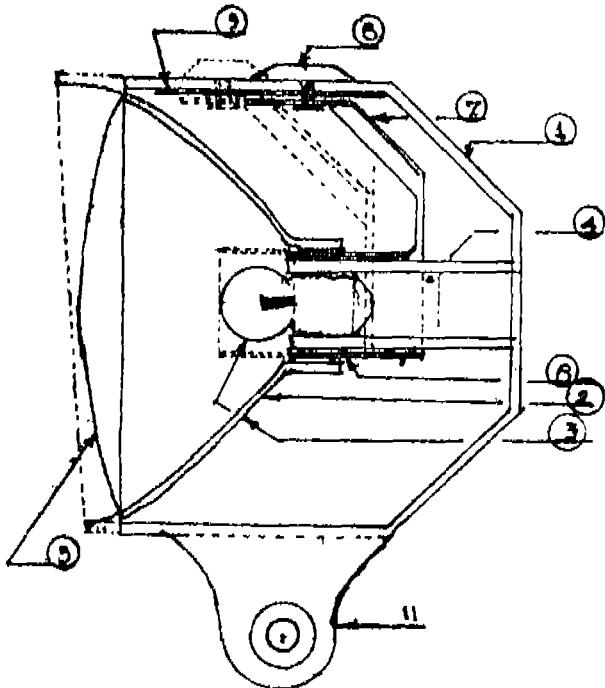
Applicant & Inventor : ASIM KUMAR PAL OF 58/95, PRINCE ANWAR SHAH ROAD, CALCUTTA-700 045, WEST BENGAL, INDIA.

Application No. 197/Cal/1989: filed on March 09, 1989.

Application No. 197/Cal/1989 filed on March 09, 1989.
Appropriate office for opposition proceedings (Rule 4, Patent Rule 1972) Patent Office, Calcutta.

11 Claims

A focussing-cum-indicating light with colour changing arrangement, e.g. suitable for use in automobiles/velocipedes, or for traffic signalling, comprising a housing having a glass/lens-covered reflector mounted at its front with a bulb disposed and held by a holder at the centre of the reflector said bulb being adapted to be covered and uncovered as and when desired by a slideable transparent single filter member of desired colour (s), or by one, at a time, of a plurality of slideable transparent filter members of desired colours, by means of a linkage member connected to the said single slideable filter member, or by means of the respective one of a plurality of linkage members connected to the said filter members, said linkage member/members being operable from outside the housing, and the annular space defined between the bulb holder and a central opening of the reflector being so selected as to allow free sliding of the said single filter member, or free sliding movement of any of the filter members, the arrangement being such that, as and when desired, illumination of the bulb in its ON position is capable of being changed according to the colour (s) of the said sliding filter member, as and when slid over the bulb, or according to the colour of the selected one of the plurality of filter members, as slid over the bulb.



(Compl. specn. 14 pages.)

Drgns. 1 sheet)

Cl. 190 B

Int. Cl. F 01 D 5/28.

"METHOD FOR THE RESTORATION OF A FERROUS STEAM TURBINE COMPONENT".

Applicant : WESTINGHOUSE ELECTRIC CORPORATION, OF WESTINGHOUSE BUILDING, GATEWAY

CENTRE, PITTSBURGH, PENNSYLVANIA 152222, UNITED STATES OF AMERICA.

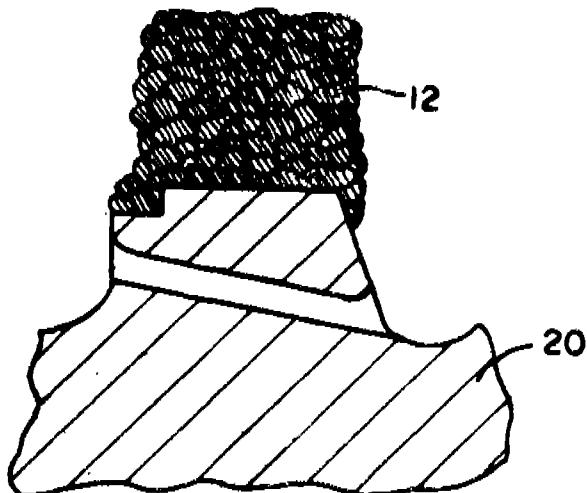
Inventors : (1) ROBERT EDWARD CLARK, (2) DENNIS RAY AMOS

Application No. 135/Cal/1989; filed on February 15, 1989.

Appropriate office for opposition proceeding (Rule 4, Patent Rule 1972) Patent Office, Calcutta.

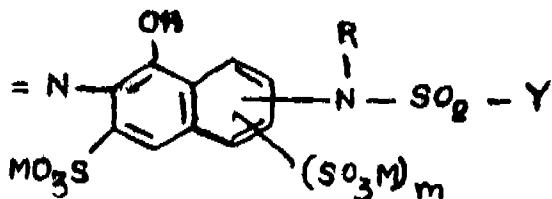
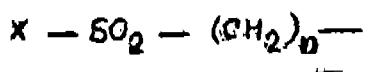
10 Claims

A method for the restoration of a ferrous steam turbine component by depositing a ferrous alloy on a worn surface of the said steam turbine component, the method comprising depositing the ferrous alloy on a surface of the ferrous steam turbine component and machining the deposited alloy to a predetermined shape, characterized in that said ferrous alloy consists of 0.04 to 0.22 weight percent C, 0.15 to 1.0 weight percent Mn, 0.15 to 1.0 weight percent Si, 0.0 to 0.2 weight percent P, 0.0 to 0.16 weight percent S, 0.0 to 0.8 weight percent Ni, 4.00 to 19.0 weight percent Cr, 0.43 to 2.1 weight percent Mo, .09 to 0.5 weight percent V, 0.03 to 0.20 weight percent Mb, 0.0 to 0.08 weight percent Al, 0.0 to 0.20 weight percent Cu, and .005 to 0.06 weight percent N, the balance being Fe.



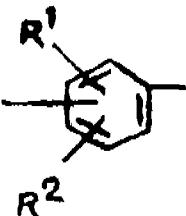
Compl. specn. 14 pages.

Drgns. 2 sheets

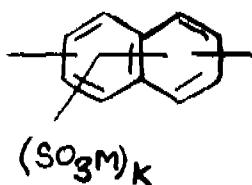


Formula (1)

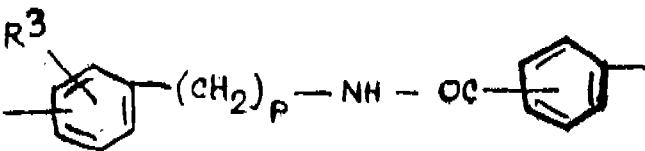
D is a group corresponding to the formula (2), (2b) or 2(c) in which



Formula (2a)



Formula (2b)



Formula (2c)

R^1 is a hydrogen, alkyl having 1 to 4 carbon atoms, hydroxy, nitro alkoxy having 1 to 4 carbon atoms, chlorine, bromine or carboxy,

R^2 is hydrogen, alkyl having 1 to 4 carbon atoms, alkoxy having 1 to 4 carbon atoms, chlorine or sulfo.

R^3 is hydrogen or sulfo,

k represents the number zero or 1 (and in the case where k is zero, this group denotes a hydrogen atom), P represents the number zero, 1 or 2 and has the abovementioned meaning;

m is the number zero or 1, preferably zero (and in the case where m is zero, this group denotes a hydrogen atom);

n is the number zero or 1, preferably zero;

X is vinyl or β -thiosulfatoethyl or β -sulfatoethyl, preferably vinyl and in particular β -sulfatoethyl;

Y is vinyl or β -thiosulfatoethyl or β -sulfatoethyl, preferably vinyl and in particular β -sulfatoethyl; and the abovementioned

Cl. 32 A 1

171374

Int. Cl. C 09 B 27/00.

"PROCESS FOR THE PREPARATION OF WATER SOLUBLE AZO COMPOUNDS".

Applicant : HOECHST AKTIENGESELLSCHAFT, OF D-6230 FRANKFURT AM MAIN 80. FEDERAL REPUBLIC OF GERMANY.

Inventors : (1) LUDWIG SCHLAFFER, (2) WERNER HUBERT RUSS.

Application No. 450/Cal/89 filed on June 14, 1989.

Appropriate office for opposition proceeding (Rule 4, Patent Rule 1972) Patent Office, Calcutta.

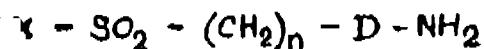
11 Claims

A process for the preparation of a water-soluble azo compound corresponding to the formula (1) of the accompanying drawings in which :

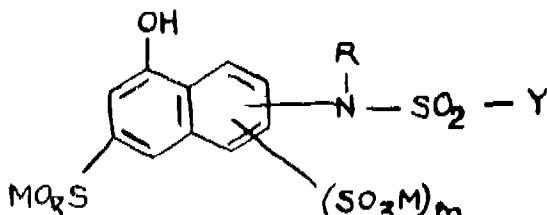
M is a hydrogen atom or an alkali metal;

R is an alkyl having 1 to 4 carbon atoms;

formula radicals may be identical with one another or different from one another within the indicated meanings which comprises coupling a diazonium salt of an aromatic amino compound corresponding to the formula (3) in which X, n and D have the abovementioned meanings, with a compound corresponding to the formula (4) in which M, m, R and Y have the abovementioned meanings, the coupling reaction being carried out a pH between 3 and 8 and temperature of between 5 and 35 C.



Formula (3)



Formula (4)

Compl. specn. 23 pages.

Drgns. 1 sheet.

Cl. 32 E.

171375

Int. Cl : C 08 G 18/60

"AN IMPROVED PROCESS FOR PRODUCING A POLYAMIDE BY TREATING THE POLYAMIDE TO INCREASE ITS MOLECULAR WEIGHT."

Applicant : E.I. DU PONT DE NEMOURS & COMPANY OF WILMINGTON, DELAWARE, UNITED STATES OF AMERICA.

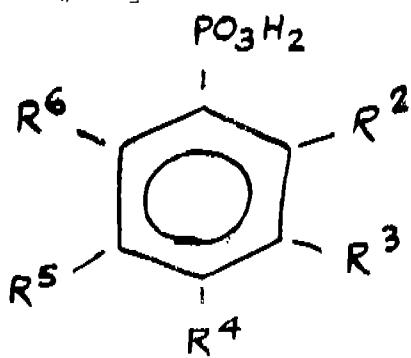
Inventor : ROBERT CLAYTON WHELAND.

Application No. 862/cal/89; filed on October 18, 1989.

Appropriate office for opposition proceedings (Rule 4, Patent Rule 1972) Patent Office, Calcutta.

8 Claims

An improved process for producing a polyamide by treating the polyamide to increase its molecular weight comprising heating the polyamide at a temperature of between 80—360°C in the presence of a catalyst to effect a desired increase in molecular weight, wherein the improvement consists essentially of employing, as the catalyst, at least one compound of the formulas selected from A or B of the accompanying drawing wherein R^a, R^b and R^c are independently selected from the group H, R₂N-, RO-, RS-, or R-, wherein R is C_xH_{2x+1} with x = 1 to 10, C₆H₅- and ₉H₈CH₂ with the proviso that R^a, R^b and R^c cannot be hydrogen simultaneously and with the further proviso that when only H or R groups are present in the molecule at least one of R^a or R^b be R and R^a and R^b are independently selected from the group H, R₂N-, RO-, RS-, or R, wherein R is C_xH_{2x+1} with x = 1 to 10, C₆H₅- and C₆H₅CH₂.



Formula A

Compl. specn. 12 pages.

Drgns. 1 sheet.

Cl. : 134 B

171376.

Int. Cl. : B 62 M 11/00.

"EXTENDED RANGE SPLITTER TYPE COMPOUND TRANSMISSION".

Applicant : EATON CORPORATION, 1111 SUPERIOR AVENUE, CLEVELAND, OHIO 44114, UNITED STATES OF AMERICA.

Inventors : (1) MELOVERN WALTER FLETCHER. (2) DAVID GEORGE WYLIE.

Application No. 698/C.I./1988; filed on August 22, 1988.

(Convention No. 8722186 filed on 21-9-87 in U.K. and Application No. 8726222 filed on 7-11-87 in U.K.).

Appropriate office for opposition proceeding (Rule 4, Patent Rule 1972) Patent Office, Calcutta.

12 Claims

An extended range compound splitter type change gear transmission (10) comprising a housing (16) defining a multiple speed main transmission section (12) connected in series with a multiple speed auxiliary transmission section (14) connected in series with a multiple speed extended range section (15);

said main transmission section (12) comprising an input shaft (18) having an input gear (22) rotationally fixed thereto, a mainshaft (28) generally coaxial with said input shaft extending into said auxiliary transmission section, at least one countershaft (24, 26) rotationally supported in said housing and driven by said input gear, a plurality of countershaft gears (36, 38, 40, 42) fixed to said countershaft, a plurality of main section mainshaft gears (46, 48, 50) surrounding but not constantly engaged with said mainshaft and constantly driven by said countershaft gears, and main section jaw clutch assemblies (56, 58, 60) for selectively clutching said main section mainshaft gears, one at a time, to said mainshaft;

said auxiliary transmission section (14) comprising at least one auxiliary countershaft (78, 80) rotationally supported in said housing, an intermediate shaft (200) generally coaxial with said mainshaft, said auxiliary countershaft having a plurality of auxiliary countershaft gears (84, 86, 88) fixed thereto, an output gear (112) splined to said intermediate shaft for rotational movement therewith, said output gear constantly meshed with one (88) of said auxiliary countershaft gears, at least one auxiliary mainshaft gear (108, 110) surrounding said mainshaft for rotational movement relative thereto, said auxiliary mainshaft gear constantly meshed with another (84, 86) of said auxiliary countershaft gears, auxiliary section jaw clutch assemblies (116, 118, 120) for selectively coupling said auxiliary mainshaft gear and said output gear, one at a time to said mainshaft;

main section shifting means (72) for selectively moving said main section jaw clutch assemblies relative to said mainshaft; and

auxiliary section shafting means (144) for selectively moving said auxiliary jaw clutch assembly relative to said mainshaft, said transmission characterized by;

said extended range section (115) comprising :

an output shaft (74) generally coaxial with said mainshaft and said intermediate shaft and independently rotatable relative thereto;

a range section countershaft gear (204) fixed for rotation with said auxiliary section countershaft (78, 80);

a range section output shaft gear (202) surrounding said output shaft and independently rotatable relative thereto;

a range section clutch (206) having a first selectable position for rotationally coupling said intermediate shaft to said output shaft and allowing said range section output gear to rotate independently of said output shaft, a second selectable position allowing independent rotation of said intermediate shaft, said output shaft and said range section output shaft gear; and third selectable position for rotationally coupling

said range section output shaft gear to said output shaft and allowing independent rotation between said intermediate shaft and said output shaft; and

range section shifting means (210) for selectively positioning said range section clutch in a selected one of the three selectable positions thereof.

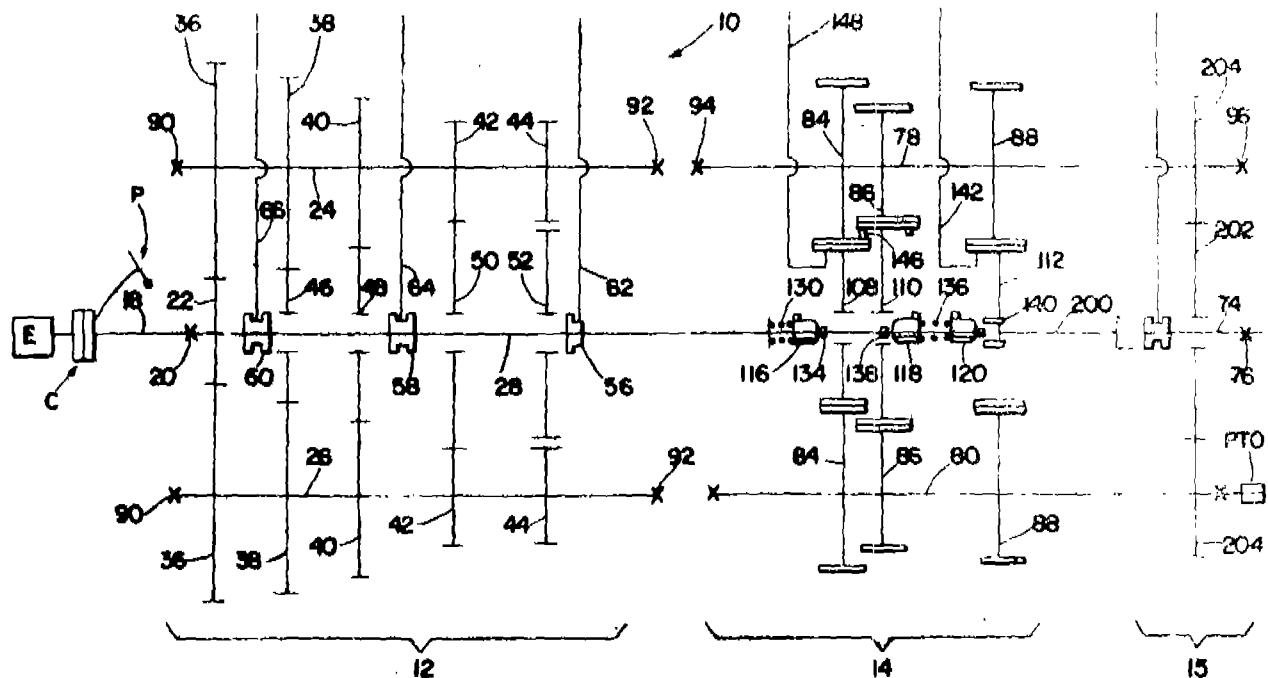


Fig. 1

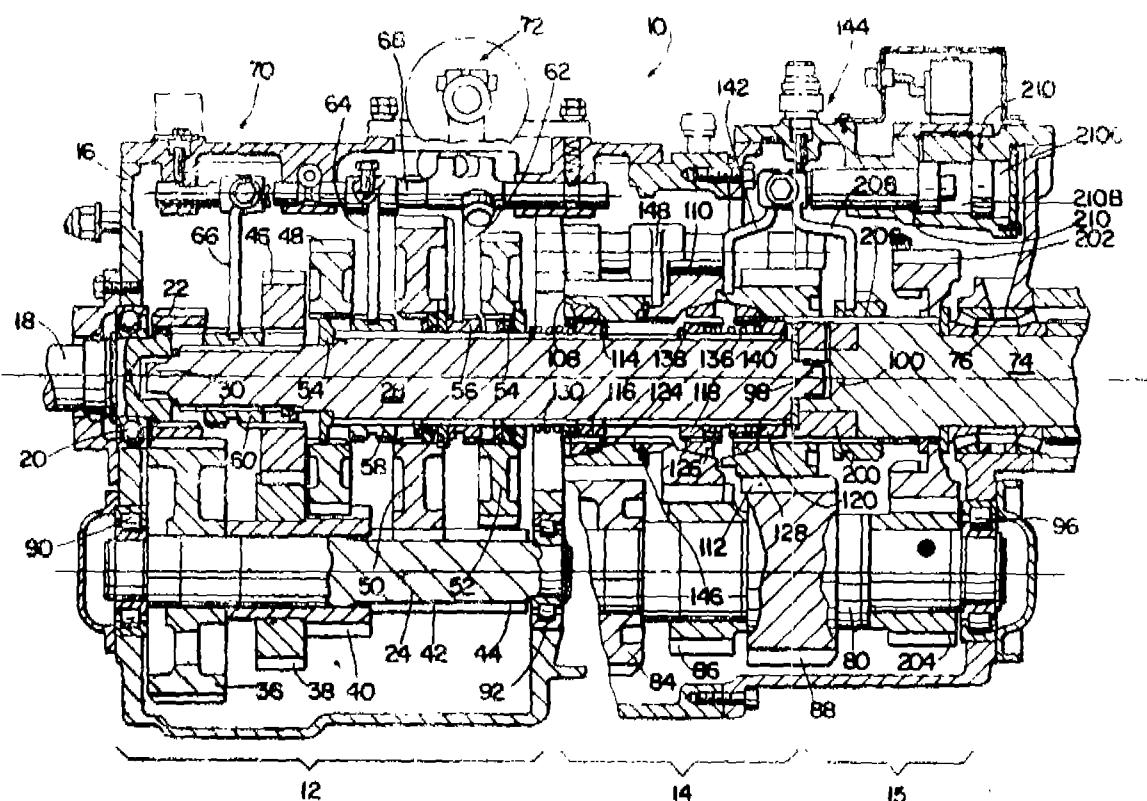


Fig. 2

Cl. : 178

171377.

Int. Cl. : B 23 D 53/00.

"A CHAIN SAW FOR CUTTING AGGREGATE MATERIAL".

Applicant : BLOUNT, INC. OF 5550 S.W. MACADAM AVENUE, PORTLAND, OREGON 97201, UNITED STATES OF AMERICA.

Inventors : (1) LEWIS A. SCOTT, (2) FRANCIS E. HOFFMAN, (3) KENNETH R. BOLKAN.

Application No. 980/Cal/88; filed on November 28, 1988.

Appropriate office for opposition proceedings (Rule 4, Patent Rule 1972) Patent Office, Calcutta.

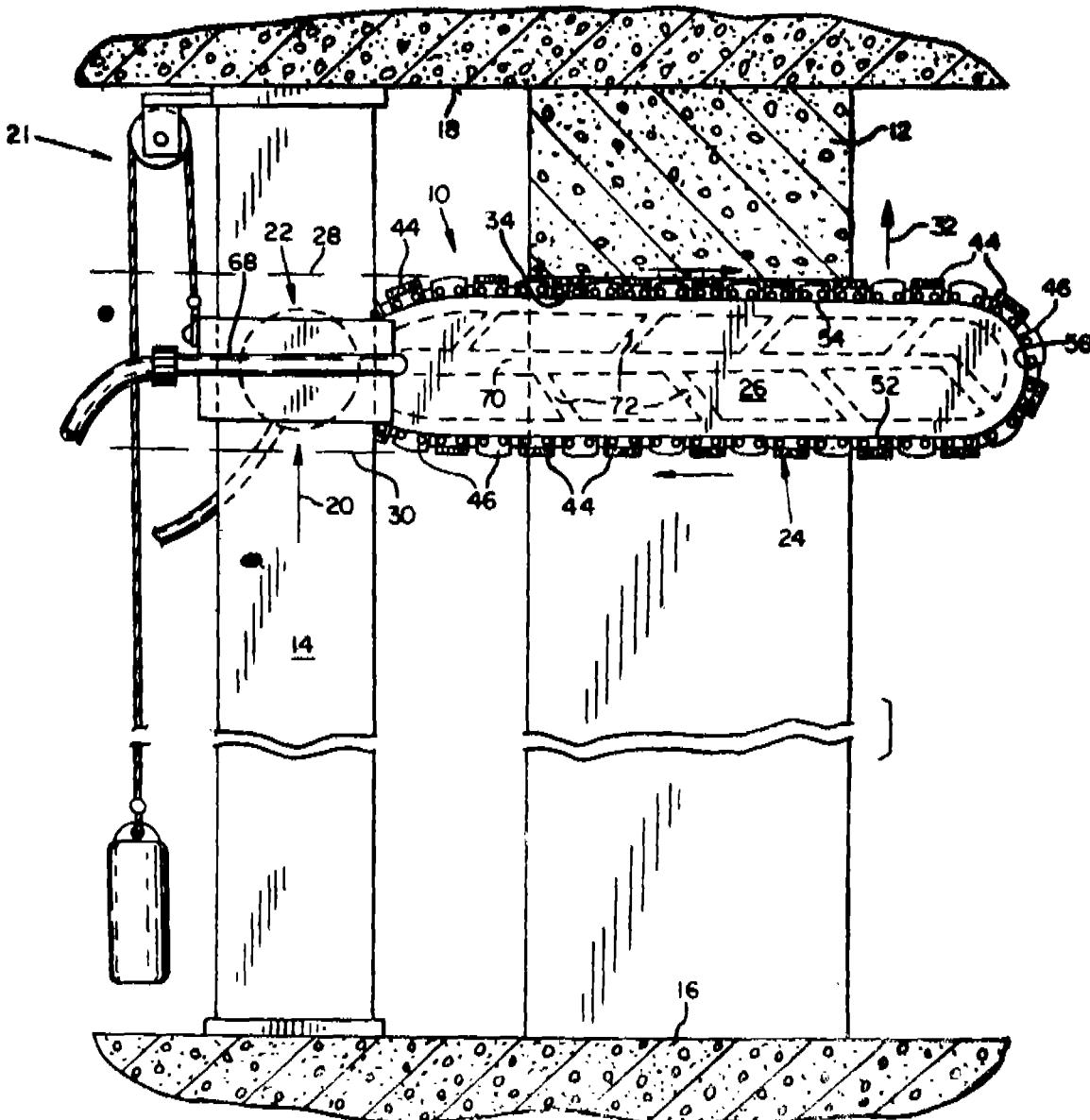
2 Claims

A chain saw for cutting aggregate material comprising;

a chain, guide bar having a rear end and a forward rounded nose end, and a chain drive mechanism, said guide bar having a guide edge including a saw chain guide groove and guide rails extended along the sides of the guide groove and around the nose end, and said saw chain having pivotally inter-connected center links and side links, said center links having depending tang portions that are slidably guided in

the guide groove of the guide bar, and said side links having bottom edges that slidably engage and ride on the guide rails of the guide bar, cutting blocks having an outer surface of a diamond impregnated matrix material, certain of the pairs of side links designated as cutting block supporting side links, said pair of supporting side links having top support edges, and said cutting block extended across the support edges of the pair of supporting side links and being bonded to both of said top support edges.

certain other of the pairs of side links alternating with said cutting block supporting side links designated as depth gauge links having upwardly extended spaced apart depth gauge portions, and said guide bar including a plurality of enclosed fluid flow channels including a main channel extending forwardly from the rear end of the guide bar substantially the length of the guide bar, and feeding channels directed from said main channel and opening into the guide bar groove at spaced intervals along the periphery of the guide bar edge, and connection means for connecting flow of a fluid source from the rear end of the guide bar along a passageway defined by the main and feeding channels, into the guide bar groove and through the spaced apart depth gauge side links to flush abrasive particles from the bar and saw chain components and away from the kerf being cut, and said fluid flow channels cooperatively configured to be less restrictive progressing from the rear end to the nose end to provide substantially equalized flushing at the nose end of the bar.



Cl. 160 A.

171378

14 Claims

Int. Cl. B 60 F 1/04.

"GOODS TRANSPORT SYSTEMS CAPABLE OF BEING TRANSFORMED INTO RAIL VEHICLES".

Applicant: SOCIETE ANNONYME DITE: INTER-MOTRA DE ZONE INDUSTRIELLE, TOULON EST-83089, TOULON, FRANCE.

Inventor: MONSIEUR JEAN-PAUL GOURDIN.

Application No. 991/Cal/88 filed on December 01, 1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patent Rule 1972) Patent Office, Calcutta.

A goods transport system capable of being transformed into a railway vehicle, the system comprising a deck including main longitudinal beams and two side longitudinal beams capable of being placed on two removable rail bogies each of which is equipped with an intermediate chassis carrying centering and fixing means for said deck, wherein each intermediate chassis includes a pair of upwardly tapering conical vertical pegs projecting above the top face of said intermediate chassis serving as a bearing plane for said deck, and said deck includes, in the vicinity of each of its two ends, a pair of vertical hollow cylindro-conical bushes which flare downwardly and which are intended to receive corresponding ones of said conical pegs.

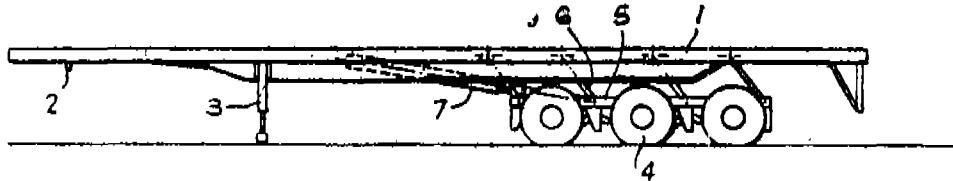


Fig. 1

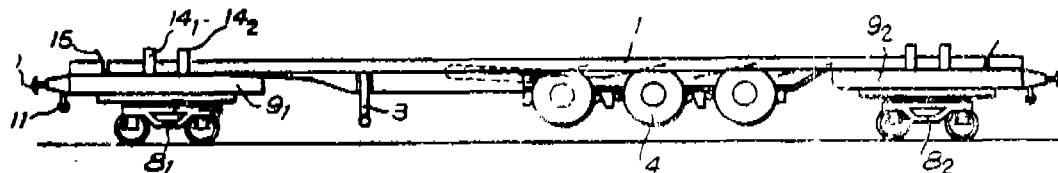


Fig. 2

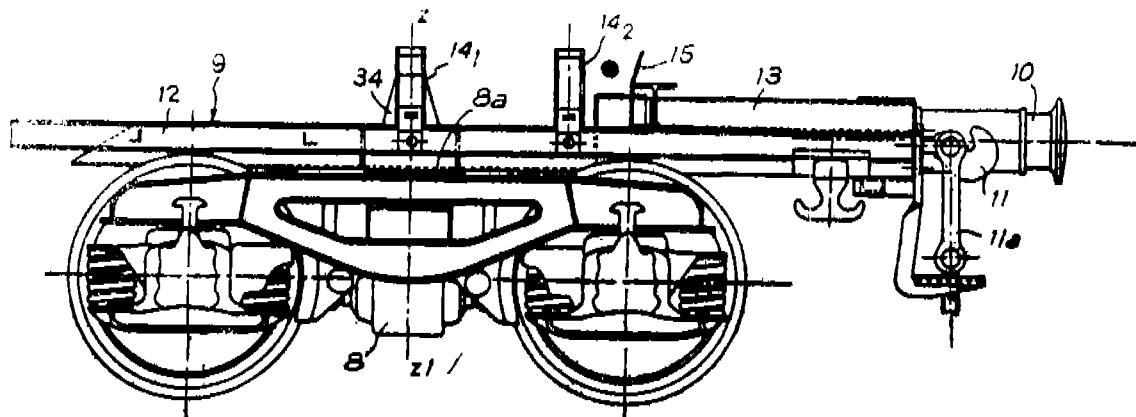


Fig. 3

Compl. Specn. 23 pages.

Drgns. 11 sheets

Cl. 32 B+40 F.

171379

9 Claims

Int. Cl.: C 10 G 35/00, 35/06, 35/095.

"A PROCESS FOR CONVERSION OF HYDROCARBONS USING CRYSTALLINE TITANIUM SILICATE SIEVE ZEOLITE".

Applicant: ENGELHARD CORPORATION OF 70 WOOD AVENUE, SOUTH ISSELIN, NEW JERSEY, 08830, UNITED STATES OF AMERICA.

Inventor: STEVEN MITCHELL KUZNICKI.

Application No. 1041/Cal/88 filed on December 19, 1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patent Rule 1972) Patent Office, Calcutta.

A process for conversion of hydrocarbons especially reformation of naphtha which comprises contacting the same at conversion conditions as herein described with a crystalline titaniumsilicate molecular sieve zeolite having a pore size of approximately 8 Angstrom units and a composition in terms of mole ratios of oxides as follows:

$$1.0 \pm 0.25 M_{2/n} O : TiO_2 : y SiO_2 : z HO_2$$

wherein M is at least one cation having a valence of n, y is from 2.5 to 25, and z is from 0 to 100, said zeolite being characterized by an X-ray powder diffraction pattern having the lines and relative intensities set forth in Table I of the specification.

Compl. Specn. 31 pages.

Drgns. Nil

Cl. 50 C

171380

Int. Cl.: F 25 C 1/24.

AN IMPROVED ICE CUBE TRAY.

Applicant: ARCTIC ICE, INC. OF 146 WEST 57TH STREET, SUITE-66-B NEW YORK, N.Y. 10019, USA.

Inventors : (1) STURE CHRISTER CEDERROTH (2) BRUCE BARRY ZUTLER.

Application No. 1059/Cal/88 filed on December 23, 1988.

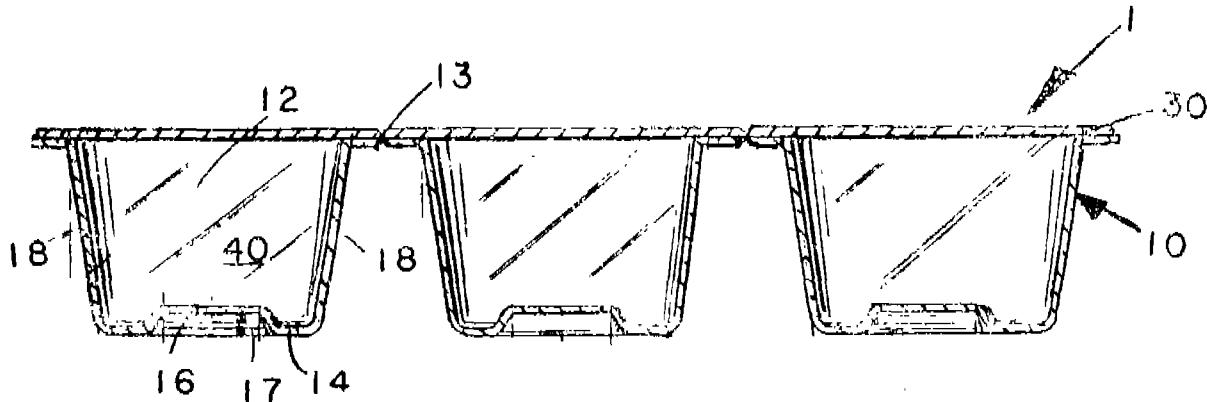
Appropriate Office for Opposition Proceedings (Rule 4, Patents Rule 1972) Patent Office, Calcutta.

13 Claims

An improved disposable ice cube tray for containing a liquid that forms into a plurality of ice cubes, said tray comprising

a cover and a base having a plurality of cavities each for receiving a portion of the liquid that upon freezing, forms into said plurality of ice cubes each of said plurality of cavities having a bottom and a plurality of side walls, said tray being characterised in that:

said bottom of each of said plurality of cavities having a thickness greater than the thickness of each side walls of that cavity, said bottom having a surface in said cavity and having a protuberance formed on the surface, wherein the protuberance of one of said plurality of cavities creates an embossment in the ice cube formed in that cavity, said cover being permanently secured to said base; and means for permanently securing said base to said cover, wherein the liquid is entirely enclosed in said tray and therefore cannot be contaminated by matter outside of said tray when said base is secured to said cover, and wherein a portion of the securing means that permanently secures a portion of said cover to portion of said base is damaged once the cover portion is removed from the base portion so that the cover portion cannot re-adhere to the base portion thus providing a positive indication that the liquid or said plurality of ice cubes formed therefrom have been exposed to the matter outside of said tray so that the contents of said tray may not be contamination free.



Compl. Specn. 22 pages.

Drgns. 3 sheets

Ind. Class : 187 H [LXI(2)]

171381

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

Int. Cl. : H 04 B 7/02.

A COMMUNICATION SYSTEM CONSISTING OF FIXED ELECTROMAGNETIC TRANSCIVERS.

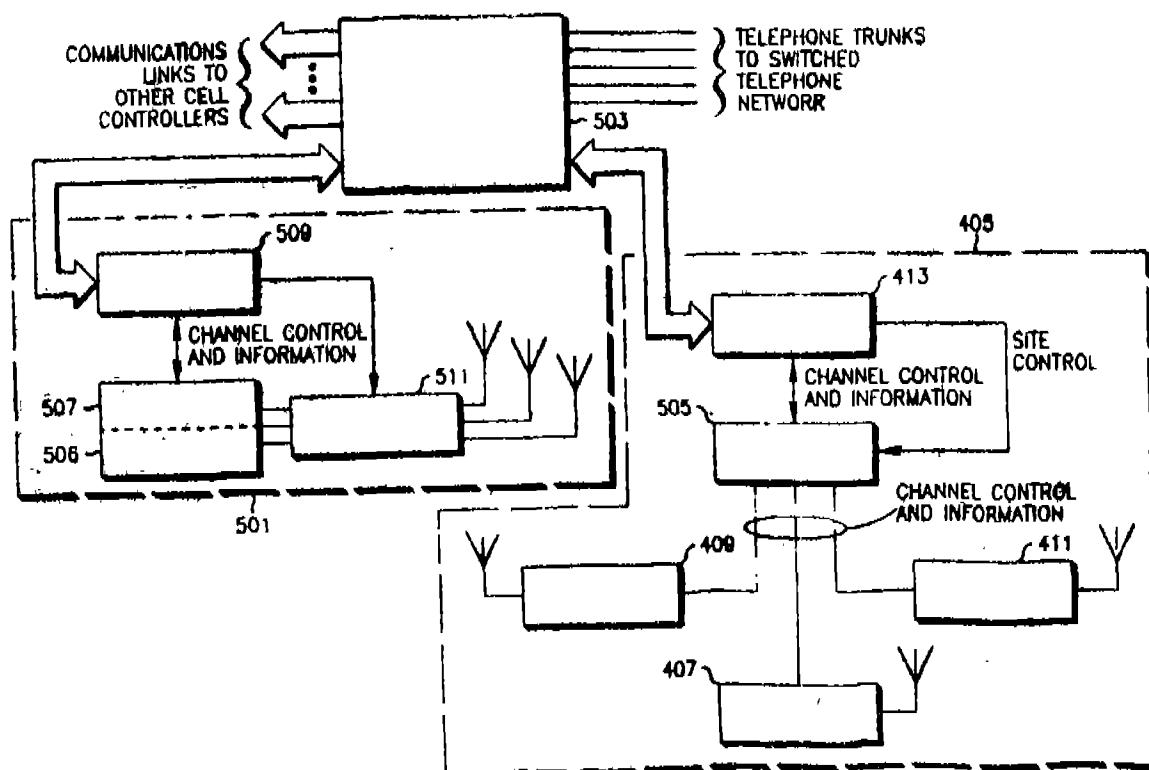
Applicant: MOTOROLA INC., A CORPORATION OF THE STATE OF DELAWARE, UNITED STATES OF AMERICA, OF 1303 EAST ALGONQUIN ROAD, SCHAUMBURG, ILLINOIS 60196, U.S.A.

Inventor: GERALD PAUL LABEDZ.

Application No. 138/MAS/88 filed on 3rd March 1988.

3 Claims

A communication system consisting of fixed electromagnetic transceivers having respective control means, located at predetermined sites, the said system having means for receiving a first electromagnetic signal from a first transceiver during a first one of a plurality of time slots on a first electromagnetic frequency, means for receiving a second electromagnetic signal from a second transceiver during a second one of said plurality of time slots on said first electromagnetic frequency, means for selecting between said first and second electromagnetic signals and communicating said selected signal to the control means, means for receiving said selected electromagnetic signal conveying at least a portion of a message during a third one of said plurality of time slots selected by the said control means.



(Compl. specn. 25 pages,

Drwg. 9 sheets)

Ind. Cl. : 22 [XL(2)].

171382

Int. Cl.¹ : B 65 D 1/08.**A SELF-DRAINING CONTAINER.**

Applicant : OWENS-ILLINOIS PLASTIC PRODUCTS INC., A CORPORATION OF THE STATE OF DELAWARE OF ONE SEAGATE, TOLEDO, OHIO-43666 UNITED STATES OF AMERICA.

Inventor : THOMAS J. KRALL.

Application No. 272/MAS/88 filed on 28th April 1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, Madras.

5 Claims

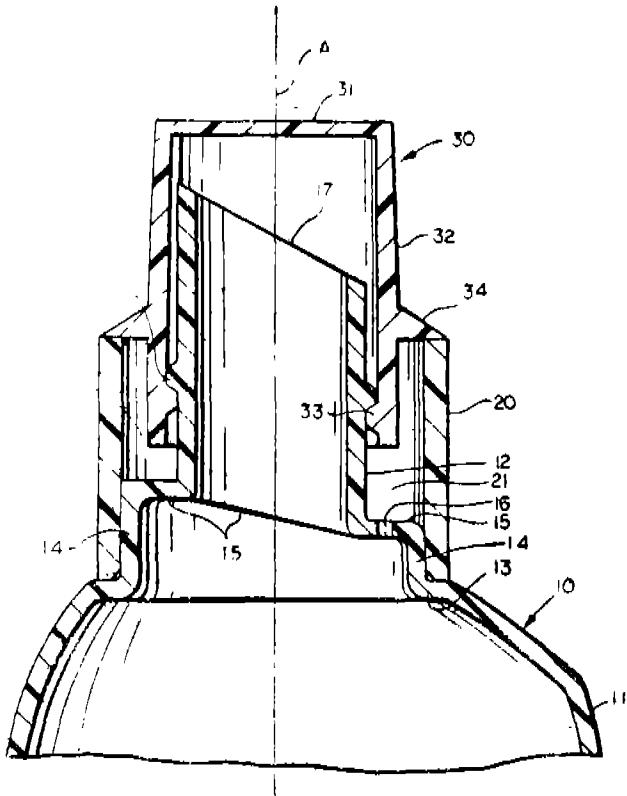
A self-draining container comprising in combination (a) a bottle having,

(i) a body portion with an annular wall portion at its upper end;

(ii) an integral flange extending inwardly from said annular wall;

(iii) an integral spout member extending generally upwardly from said flange, said spout having closure retention means on the exterior surface thereof; and

(b) an annular sleeve encircling and sealingly connected to said annular wall, said sleeve cooperating with said spout and with the upper surface of said flange to define a channel for collecting excess fluid draining down the outside surface of said spout following dispensing of fluid therethrough, said flange having aperture means communicating with the interior of said body portion; said channel configured to direct such excess fluid to said aperture when the bottle is in its upright storage position.



(Comp. specn. 11 pages;

Drgs. 4 sheets)

Ind. Cl. 40-A, 1-[GROUP-IV(1)]

171383

Int. Cl. : B 01 J 8/02.

AN IMPROVED REACTOR FOR HETEROGENOUS SYNTHESIS OF COMPOUNDS SUCH AS AMMONIA.

Applicant : AMMONIA CASALE S A, A SWISS COMPANY OF CH-6900 LUGANO, VIA DELLA POSTA 4, SWITZERLAND.

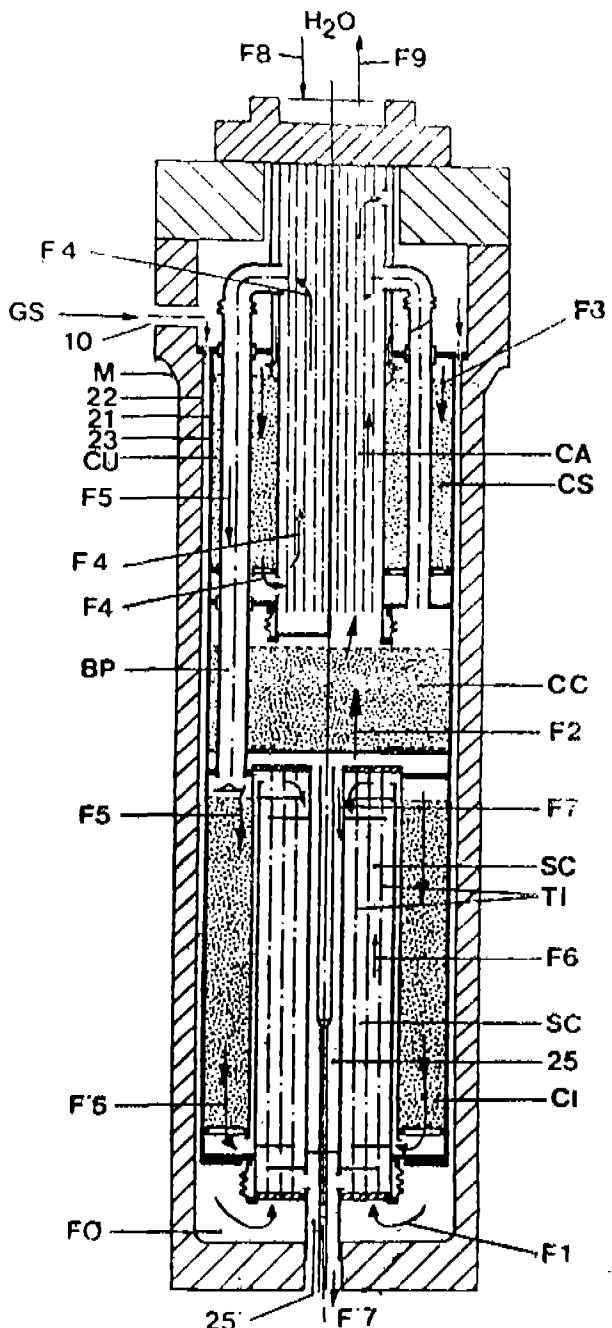
Inventors : (1) UMBERTO ZARDI. (2) GIORGIO PAGANI.

Application No. 282/MAS/88 filed May 3, 1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

6 Claims.

An improved reactor for heterogeneous synthesis of compounds such as ammonia comprising a cartridge wall, an internal boiler and an internal heat exchanger inserted at least partially into a catalytic layer the improvement comprising a first catalytic layer partly connected to the said boiler; a second catalytic layer partly connected to the said heat exchanger; at least one intermediate catalytic layer disposed between the said first catalytic layer and the said second catalytic layer, each said catalytic layer having an internal annular wall and an external annular wall defining a first airspace and a second airspace respectively, the said internal annular wall and the said external annular wall of each catalyst layer being at least partially perforated; the said external annular wall of the first catalytic layer being perforated along an entire length thereof, the said first airspace of the first catalytic layer being defined by the said perforated external annular wall of the first catalytic layer and the said cartridge wall of the reactor; the said internal annular wall of the first catalytic layer being perforated along a length less than the length of the said external annular wall of the first catalytic layer, the said second airspace of the first catalytic layer being defined by the said perforated internal annular wall of the first catalytic layer and the wall of the said boiler; the said external annular wall of the second catalytic layer being perforated along an entire length thereof, the said first airspace of the second catalytic layer being defined by the said perforated external annular wall of the second catalytic layer and the said cartridge wall of the reactor; the said internal annular wall of the second catalytic layer being perforated along a length less than the length of the said external annular wall of the second catalytic layer, the said second airspace of the second catalytic layer being defined by the said perforated internal annular wall of the second catalyst layer and the wall of the said heat exchanger.



(Com. 12 pages; Drwgs. 2 Sheets)

Ind. Cl. : 206 B [LXII]

171389

Int. Cl.⁴ : H 04 L 5 02, H 04 J 15/00.

"A CENTRAL MESSAGE SERVER CAPABLE OF EXCHANGING DATA".

Applicant : J. S. TELECOMMUNICATIONS OF 31, 32 QUAI DE DION BOUTON 92811 PUTEAUX FRANCE, A FRENCH COMPANY.

Inventor : DANIEL MENARD.

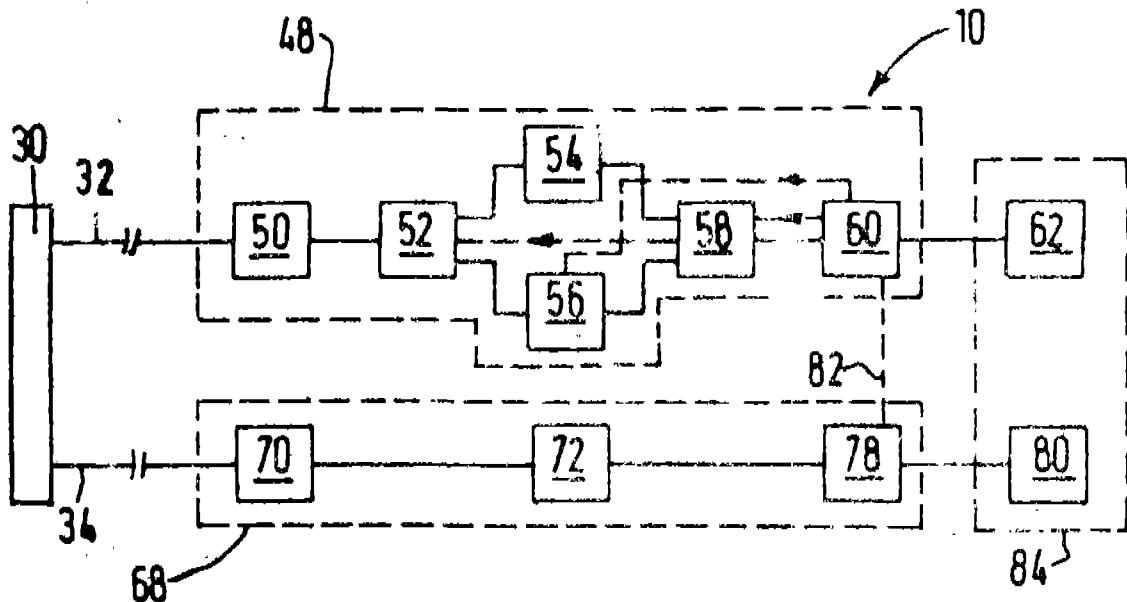
Application No. 304/Mas/88 filed on 10th May 1988.

Appropriate Office for Opposition Proceedings (Rule 4,
Patents Rules, 1972) Patent Office Branch, Madras.

4 Claims

A central message server capable of exchanging data via a switched network (30) with terminals (20) having peripherals of two different types (22, 24) and two different types of access devices (48, 68), the said peripherals and the said two systems of access devices functioning respectively in

two different data formats, characterized in that all of the access devices are individually connected to the network (30) and at least the access devices of the first system (48) having dialers (52, 56, 58) for sending the calling number of an access device of the other system and a command number to connect the line to the latter access device.



(Complete specification 21 pages:

Drawing 1 sheet)

Ind. Cl. : 87-E & 206-E [GROUPS-XLII(4) & LXII] 171385

Int. Cl. : A 63 B 49/14

APPARATUS FOR PROGRAMMING AND CONTROLLING THE POSITION OF THE HANDLE OF A BALL-HITTING INSTRUMENT AND THE GUIDANCE OF THE INSTRUMENT DURING CERTAIN MOVES IN BALL GAMES.

Applicant & Inventor : ADOLF BRUNNER, OF BASLER-STRASSE 37A, D-7880 BAD SACKINGEN, FEDERAL REPUBLIC OF GERMANY, A CITIZEN OF THE FEDERAL REPUBLIC OF GERMANY.

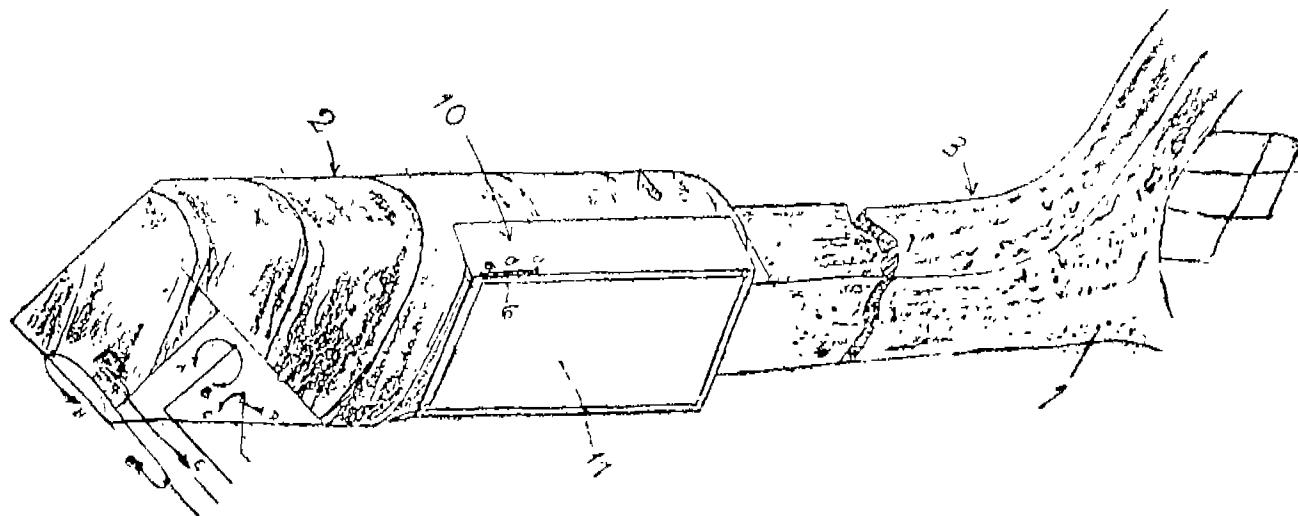
Application No. 311/Mas/88 filed May 11, 1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

10 Claims

An apparatus for programming and controlling the seizing of a handle of a ball-hitting instrument and the guiding of the instrument by a player during striking of a ball in a ball game, comprising an apparatus casing, a housing therein for a source (5) of electric direct current, an electronic circuit mounted in said casing having a circuit board (4) having a

longitudinal axis, a first (4a) and a second (4b) board edge transverse to said axis, and an outer and an inner board face, on-off-switch means (6) mounted on said casing (10) and adapted for turning direct current from said current source (5) on and off; a perceivable signals-emitting device (9); integrated circuit chip means (20) adapted for being programmed and controlling a first time interval, preferably a single-chip microprocessor, potentiometer means for adjusting the duration of said first time interval; a first elongated switch (7) of the noiseless quickresponse type, having an inner end (7a) and an outer contact end (7b) and being mounted on, and extending parallel with, said outer board face of said circuit board (4) and forming an angle of about 40° with said longitudinal axis, said outer contact end of said first switch being nearer said first transverse board edge (4a) than said inner first switch end (7a); a second elongated switch (17) of the noiseless quick-response switch type, having an inner and an outer switch end (17a, 17b) and being mounted at said inner switch end (17a) on said outer board face, projecting therefrom at a substantially right angle; a third elongated switch (12), being mounted on said circuit board (4) and having an outer end (12a) and an inner end (12b), said inner end (12b) being nearer said first transverse board edge (4a) than said outer third switch end (17a), and a fourth elongated switch having an inner end and an outer end and being mounted on said outer end of said fourth switch being nearer said first transverse board edge (4a) than said inner fourth switch end.



(Com.—63 pages;

Drwgs.—8 sheets)

Ind. Cl. : 144 A [XII(3)]

171386

Int. Cl.⁴ : B 29 C 63/00.**A METHOD OF MAKING A LINED PIPELINE.**

Applicant : INSITUFORM HOLDINGS LIMITED AN ISLE OF MAN COMPANY OF 10 HILL STREET, DOUGLAS ISLE OF MAN.

Inventor : ERIC WOOD.

Application No. 328/Mas/88 filed on 17th May, 1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office Madras Branch.

6 Claims

A method of making a lined pipeline having a lining comprising the steps of impregnating a resin absorbant fibrous lining material with a curable resin such as herein described containing a known radiation initiating catalyst lining the pipeline or passageway with the said resin impregnated lining material, curing the resin impregnated absorbant material by light radiation to obtain the lined pipeline wherein the said fibrous material have the same refractive indices and the light radiation has an intensity sufficient to penetrate into the said resin impregnated material.

(Complete specification—14 pages; Drawings 1 sheet)

Ind. Cl. : 146-D.1 — [GROUP — XXXVIII(2)] 171387

Int. Cl.⁴ : H 01 J 37/26**A SCANNING ELECTRON MICROSCOPE.**

Applicant : ELECTRO-SCAN CORPORATION, OF 100 ROSEWOOD DRIVE, DANVERS, MA 01923, UNITED STATES OF AMERICA, A.U.S. COMPANY.

Inventors : (1) JAMES F MANCUSO
 (2) WILLIAM B MAXWELL
 (3) GERASIMOS D DANILATOS

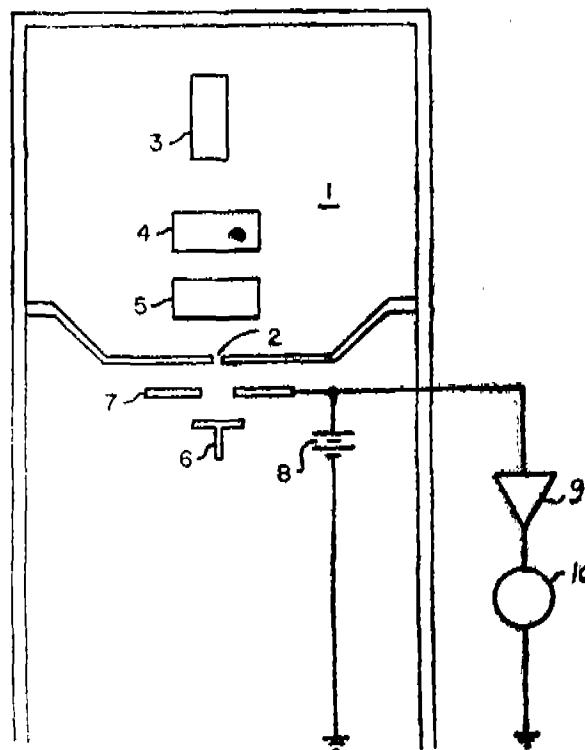
Application No. 336/Mas/88 filed May 20, 1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

5 Claims

A scanning electron microscope comprising : a vacuum envelope having a pressure limiting aperture; an electron beam source located within the vacuum envelope capable of emitting a charged particle beam; focusing means located within

the vacuum envelope and capable of directing an electron beam emitted by the electron beam source through the pressure limiting aperture; a specimen chamber for holding the sample to be scanned with the focused beam of electrons, said specimen chamber being disposed outside the vacuum envelope and capable of maintaining the sample enveloped in gas at a pressure of at least .05 Torr in registration with the pressure limiting aperture; a specimen mount located within the specimen chamber and positioned for supporting the specimen to be scanned with the focused beam of electrons; an electrode disposed outside of the vacuum envelope and positioned within between 1 and 200 mm from the specimen mount; a voltage source, connected between the electrode and an electrical ground for maintaining an electrical potential difference between the electrode and the sample platform means of greater than 50 volts and less than 2,000 volts; a current amplifier connected to the electrode; and current detection means connected between the current amplifier and an electrical ground.



(Com.—16 pages;

Drwgs.—1 sheet)

Ind. Cl. : 134-D—[GROUP—III(1)]
Int. Cl. : B 62 D 6/00

AN APPARATUS FOR CONTROLLING A CLUTCH-BRAKE MECHANISM IN A VEHICLE.

Applicant : CATERPILLAR INC., OF 100 N E ADAMS STREET, PEORIA, ILLINOIS 61629-6490, U.S.A., A CORPORATION ORGANIZED AND EXISTING UNDER THE LAWS OF THE STATE OF DELAWARE.

Inventors : (1) JAMES PAUL MUELLER
(2) WELDON LEON PHELPS

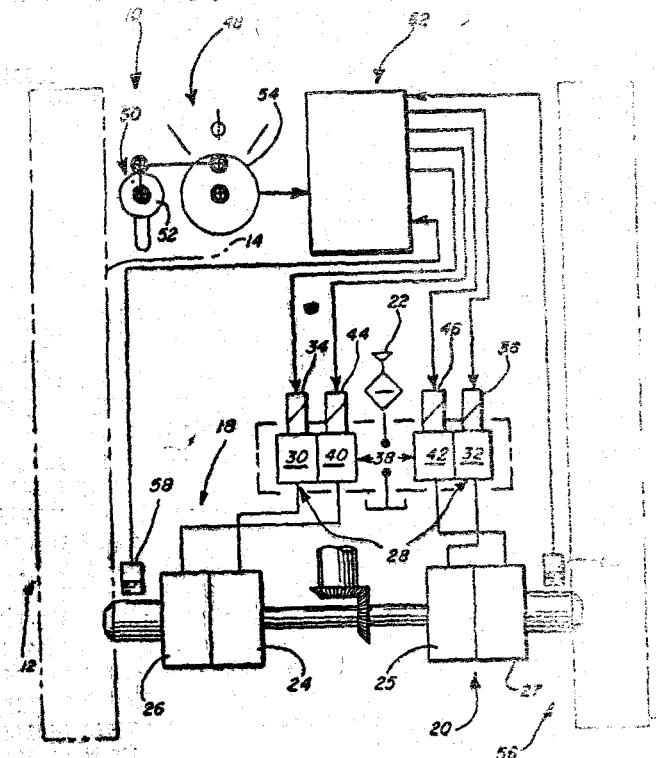
Application No. 340/Mas/88 filed May 23, 1988.

Convention date : October 5, 1987; (No. 548, 544; Canada).

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

5 Claims

An apparatus for controlling a clutch-brake mechanism in a vehicle comprising clutch and brake systems (18, 20) associated respectively with the tracks (14, 16) of each side thereof and responsive to a source of fluid pressure (22) for steering of the vehicle (12), each clutch and brake system (18, 20) consisting of a clutch (24, 25) alternately engageable and disengageable to respectively connect and disconnect the driving force applied to the track (14, 16) of the vehicle (12), and a brake (26, 27) alternately actuatable and releasable to respectively brake and release the track (14, 16) of the vehicle (12) characterised by a control apparatus (10) for the clutch and brake steering system consisting of clutch valve means (28) for controlling the fluid pressure delivered to said clutch (24, 25) in response to receiving an electrical control signal; brake valve means (38) for controlling the fluid pressure delivered to said brake (26, 27) in response to receiving an electrical control signal; means (48) for determining a desired velocity differential between said tracks; means (56) for delivering first and second signals correlative to the respective velocities of each of said tracks (14, 16) processing means (62) for receiving said first and second track velocity signals, determining the differential therebetween, comparing said determined and desired velocity differentials to determine the differential error, delivering a control signal to the clutch valve means (28) of one of the tracks in response to the error being less than a preselected setpoint, and delivering a control signal to both the clutch and brake valve means (28, 38) of said one of the tracks (14, 16) in response to the error being greater than the preselected setpoint.



(Com.—20 pages;

Drwgs.—3 sheets)

Ind. Cl. : 69-A—[GROUP—LIX(1)]

171389

Int. Cl. : H 01 H 3/46

A MECHANISM FOR OPERATING A MINIATURE ELECTRICAL CIRCUIT BREAKER.

Applicant : MERLIN GERIN, A FRENCH COMPANY, OF RUE HENRI TARZE, F 38050, GRENOBLE CELEX, FRANCE.

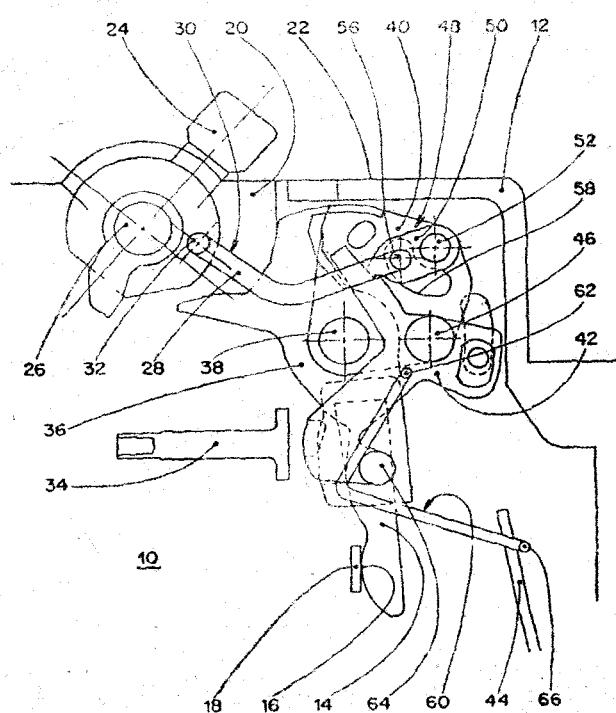
Inventors : (1) WILLIAM BARTOLO
(2) MICHEL LAZARETH

Application No. 347/Mas/88 filed May 24, 1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

8 Claims

A mechanism for operating a miniature electrical circuit breaker having a molded case housing a pair of stationary and movable contacts, said movable contact being supported by a contact arm actuated by the mechanism between a closed position and an open position, the mechanism comprising : a manual operating handle coupled to a transmission rod to form a toggle, characterized by a support lever of the contact arm articulated on a pivot of a rotating plate, a relative pivoting movement of small amplitude being allowed between the plate and the support lever due to the presence of a contact pressure spring, a breakable mechanical link arranged between the plate and the transmission rod, a trip lever articulated on the plate and being controlled by the trip device to cause breaking of said mechanical link in the event of a fault occurring, resulting in automatic tripping of the mechanism, independently from the handle, a retaining catch of the trip lever cooperating with a latch pivotally mounted on a first spindle of the plate, so as to form the breakable mechanical link, the transmission rod being coupled to the latch at an intermediate articulation point located between the first spindle and the nose of said latch.



(Com.—13 pages;

Drwgs.—4 sheets)

Ind. Cl. : 131 B 3 [XXVIII(3)]

171390

Int. Cl.¹ : E 21 C 1/00

IMPROVED BUCKET TEETH FOR A BUCKET WHEEL EXCAVATOR AND A METHOD OF MANUFACTURING THE SAME.

Applicant : WIDIA (INDIA) LIMITED, 8/9th MILE, TUMKUR ROAD, BANGALORE-560 073, KARNATAKA, INDIA, A COMPANY DULY ORGANISED AND EXISTING UNDER THE LAWS OF THE UNION OF INDIA.

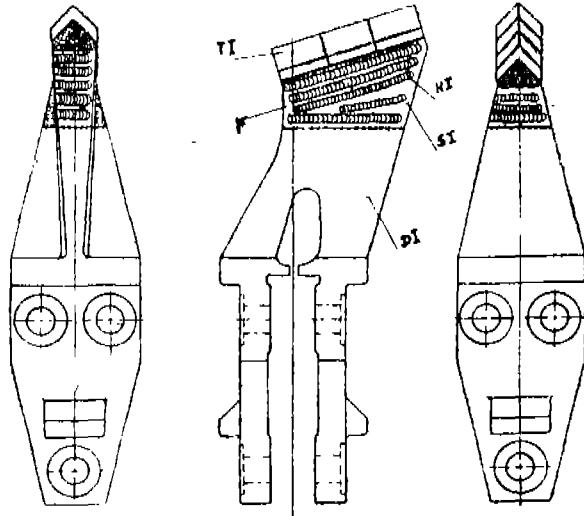
Inventors : 1. NATARAJAN RAJAMANI
2. AMITAVA SHYAM CHOUDHURY
3. RANGARAJAN SRINIVASAN

Application No. 369/Mas/88 filed on 27th May, 1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

5 Claims

Improved bucket teeth for a bucket wheel excavator wherein each tooth has an alloy steel head welded to the main body of the said tooth, said alloy steel head having brazed/welded tungsten carbide tips or tungsten carbide buttons of the desired shape fitted thereon, wherein areas of the said head prone to wear are hardfaced with a composite material comprising 20%—90% tungsten carbide and 10%—80% of a material selected from stellite, nickel, cobalt and iron.



(Complete specification 13 pages; Drawing 7 sheet(s)

OPPOSITION PROCEEDING

An Opposition has been entered by M/s. Bajaj Auto Limited to grant of a patent on application No. 170227 (661/Del/86) dated 23rd July, 1986 made by M/s. Eicher Good-earth Limited.

CLAIM UNDER SECTION 20(1) OF THE PATENTS ACT, 1970

Claim made by DARCHEM LIMITED, of West Auckland Road, Darlington, Co. Durham, DL3 OUP, a Corporation of England, under Section 20(1) of the Patents Act, 1970 to proceed the Application for Patent No. 190/Mas/88 in their name has been allowed.

PRINTED SPECIFICATION PUBLISHED

A limited number of printed copies of the undernoted specification are available for sale from the Patent Office, Calcutta, and its branches at Bombay, Madras, and Delhi at two rupees per copy :—

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PATENT SEALED

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CAL—01

DEL—Nil

Mas—14

BOM—Nil

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 AECI Ltd.—162356.
 AE PIC—162138, 162274.
 A.H. Robins Co. Incorporated—161940, 162290, 162698,
 162803, 163433, 163857, 163948 & 163949.
 A IKOH Co. Ltd.—161932.
 A. Nattermann & Cie GmbH—162327.
 A. Salvi & C.S.P.A.—161779.
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 Ajo-Stahlbau GmbH & Co. Kg.—162101.
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 Alcan International Ltd.—163940 & 163941.
 Alchemie Research Centre—162639.
 Allflex New Zealand Ltd.—163574.
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 Ambac Industries. Incorporated—162752 & 162800.

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 Amco International Alfa Metalcraft Corporation—161890.
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 Auand Automobiles—162641, 162642 & 162650.
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 Apace Research Ltd.—163091.
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 Honda Giken Kogyo Kabushiki Kaisha.—163014 & 163153.
 Huck Manufacturing Co.—163030.
 Huemer, F.X.—161741, 162369, 162425, 162487, 162520, 162589, 163095 & 163591.
 Huffy Corporation.—161912, 162427 & 163707.
 Hughes Aircraft Co.—162443, 162453, 162858, 162952, 162953, 162997 & 163399.
 Huss, H.—163339 & 163460.
 Hybritech Incorporated.—163952.
 Hydra-Tight Ltd.—162736.
 Hydro-Quebec.—163444.
 Hydrotronic Water Cleaning Systems Ltd.—162338.
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IBP Co. Ltd.—163244, 163492, 163493 & 163494.
 ICI Americas Inc.—163750.
 IEL Limited.—161947, 162213, 162404, 162553, 162785, 162863, 163743 & 164044.
 ITT Corporation.—161889.
 Image-Verlags Agfur Immaterial Guterrecht.—162217.
 Imperial Chemical Industries PLC.—162505, 162934, 163106, 163182, 163217, 163233, 163411, 163418, 163419 & 163646.
 Indian Aluminium Co. Ltd.—163662.
 Indian Council of Agricultural Research, The.—162300 & 162445.
 Indian Institute of Technology.—162440, 162873, 162874, 162979, 162980, 163558, 163961 & 163990.
 Indian Jute Industries' Research Association.—162190, 162345, 162542, 162651, 162850, 163457 & 163800.
 Indian Space Research Organisation.—163017.
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International Computers Ltd.—162114.
 International Isobouw Sales Office N.V.—162069.
 International Minerals & Chemical Corporation.—162374 & 163865.
 International Standard Electric Corporation.—161792, 161952 & 162335.
 Interrox.—162524.
 Interscets N.C.—161984.
 Institute Po Metaloznanie I Technologia Na Metalite.—161731 & 162696.
 Institute Po Technicheskia Kibernetika I Robotika.—163313.
 Institut Bioorganiches Koi Khimii Imeni M.M. Shemyakina Akademii Nauk SSSR.—16268.
 Institut Elektrosvarki Imeni B.O. Patona Akademii Nauk Ukrainskoi SSR.—162346.
 Institut Francais Du Petrole.—161883, 162473, 162479, 162601, 162606, 162765, 163149, 163157, 163343 & 163929.
 Institut Khimicheskikh Nauk Akademii Nauk Kazakhskoi SSR.—163169.
 Institut Mekhaniki Metallopolimernykh Sistem Akademii Nauk Belorusskoi SSR.—163696 & 164002.
 Institut Metallurgii Imeni A.A. Baikova Akademii Nauk SSR.—161627.
 Institut Metallurgii I Obogaschenia Akademii Nauk Kazakhskoi SSR.—163325.
 Institut Sverkhtverdvkh Materialov Akademii Nauk Ukrainskoi SSR.—161650 & 163799.
 Institut Terlo-1. Massoobmena Imeni A.V. Ivkoya, Akademii Nauk Belorusskoi SSR.—163281 & 163692.
 Instituto De Investigation Y. Desarrollo Omimico-Biologico S.A.—163314.
 Instytut Ciezkiej Syntezy Organicznej "BLACHOWNIA".—161697.
 Ireco Incorporated.—162619.
 Isover-Saint Gobain.—162373, 162862 & 163351.
 Isovolta Osterreichische Isolierstoffwerks Aktiengesellschaft.—163725.
 Italcaps S.P.A.—162658.

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J & D Oram Ltd.—162108 & 163631.
 J.H. Fenner & Co. Ltd.—162975.
 J.T. Thorpe Co.—163924.
 Jacobs Manufacturing Co., The.—163955.
 Jaffer, S.I.—162434.
 Jaichand, D.—162978.
 Jain, R.K.—163061.
 Jain, R.L.—161628.
 Jain, R.P.—163209.
 Jain, S.S.—163180.
 James Howden & Co. Ltd.—161802 & 161973.
 Jamison, T.D.—161910.
 Jana, N.—163600, 163699 & 163959.
 Japan Tobacco, Inc.—162416.
 Jawa Narodni Podnik.—161634, 161831 & 163516.
 Jay Engineering Works Ltd., The.—161805 & 163107.
 Jeng Maw Lin Jang.—163514.
 Jeumont-Schneider.—163002.
 Jindal, D.P.—164010.
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John Lysaght International Holdings SA.—162089.
 Johnsen & Jorgensen (Plastics) Ltd.—162688 & 162747.
 Johnson & Johnson.—161717, 162814 & 163863.
 Johnson & Johnson Baby Products Co.—161893.
 Johnson & Johnson Products Inc.—161966, 163458 & 163517.
 Johnson, D.E.J.—162842.
 Johnson Matthey Public Ltd. Co.—162343.
 Johnson, S.J.—162842.
 John Vaives Pty. Ltd.—161694.
 John Vincent Moore (Consulting Engineers) Pty. Ltd.—163110.
 Johnson, W.B.—163212 & 163221.
 Jolly, M.S. (Dr.)—162271.
 Joseph, V.—162771.
 Joseph Westly Newman.—163290.
 Joshi, A.V.—162172.
 Joy, P.—162739 & 162740.
 Joy, P.T.—162012.
 Jung, B.—163793.
 Junkers, J.K.—162585.
 Jyoti Ltd.—163687.

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K.F. Engineering Co. Ltd.—162944.
 KRW Energy Systems Inc.—161010.
 Kabel-Und Metallwerke Gutehoffnungshutte Aktiengesellschaft.—161691, 163335 & 163575.
 Kabra, G.K.—163278.
 Kabushiki Kaisha Kobe Seiko Sho.—163752.
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 Kalantri, K. (Mrs.)—163245.
 Kalantri, M.—163245.
 Kalantri, N.—163245.
 Kalantri, P.—163245.
 Kaloramba Pty. Ltd.—162415.
 Kamarudin, M.A.W.—162435.
 Kandaswamy, C.R.—161651.
 Kandaswamy, M.—162237.
 Kanegafuchi Kagaku Kogyo Kabushiki Kaisha.—161732, 161963, 162062, 162332 & 163964.
 Kansas State University Research Foundation.—163317.
 Kant, C.P.—161864.
 Kapila, O.—163243.
 Kapoor, K. (Shri).—163880.
 Kar, A.K. (Dr.)—163890.
 Kar, S.—163739.
 Karwan, S.J.—163446.
 Kaufman, J.M.—163610.
 Keilhau, K.F.—161647.
 Kelsey-Hayes Co.—163098.
 Kennecott Corporation.—162899.
 Kenrich Petro Chemicals, Inc.—163641, 163644 & 163645.
 Kerala State Electronics Development Corporation Ltd.—163368.

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Kerr-Moore Chemical Corporation.—162230, 162339 & 162986.
 Kett Electric Laboratory.—163228.
 Khaitan Electricals Ltd.—163862.
 Khanna, A.—163500.
 Khanna, V.K.—163579.
 Khan, L.R.—163378.
 Khemka, D.K. (Sri).—162718.
 Khemka, K. (Mrs.).—162718.
 Kaenka, K.K. (Sri).—162718.
 Khorkin, B.N.—162901.
 Kievsky Politekhnichesky Institut imeni 50-letia Velikoi Oktyabrskoi Sozialisticheskoi revoljutsii.—162936, 163478 & 163762.
 Kimberly-Clark Corporation.—161765 & 161956.
 Kingsway Enterprises Pvt. Ltd.—161660.
 Kirloskar Brothers Ltd.—163872.
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 Klein Schanzlin & Becker Aktiengesellschaft.—161905, 162079, 162314, 163088, 163884, 163956 & 163965.
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 Kobe Steel Ltd.—161955.
 Kobrovolskaya, N.J.—163882.
 Kochkin G.M.—163742.
 Komori Printing Machines Co. Ltd.—161730.
 Koninklijke Emballage Industrie Van Ieer B.V.—164048.
 Koppers Co., Inc.—163967.
 Korf Engineering GmbH.—163456.
 Kornelis' Kunsthars Producten Industrie B.V.—162719.
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 Koshun Kaihatsu Kabushiki Kaisha.—163303.
 Kostyroko, A.S.—163882.
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 Kotobuki & Co. Ltd.—162631.
 Kovacs, A.—162846.
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 Kraft, Incorporated.—162279.
 Kraftwerk Union Aktiengesellschaft.—161813, 161926, 162183, 162683, 163074 & 163199.
 Krauss-Maffei Aktiengesellschaft.—162385, 162690, 162707 & 162790.
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 Krupp Polysius AG.—163400 & 164037.
 Krushnun, A.V.—162976.
 Kubasov, V.L.—163077.
 Kufner Textilwerke GmbH.—161931.
 Kuibyshevsky Aviatsionnyy Institut imeni Akademii S.P. Koroleva.—162927.
 Kullberg, W. (Jr.).—162293.
 Kulkarni, J.N.—162576.

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Kulkarni, P.K.—163036.
 Kulkarni, V.P.—163036 & 163040.
 Kumar, A.J.—163779.
 Kumar, K.—162096 & 162146.
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 Kumar, P. (Dr. Asstt. Prof.)—162938.
 Kumar, R.J.—163780.
 Kurganov, V.M.—163770.
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 Kyowa Gas Chemical Industry Co. Ltd.—163288.
 Kyowa Hakko Kogyo Co. Ltd.—163043.

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 Laboratories Boiron.—162657.
 Laine, M.—163715.
 L'Air Liquide, Societe Anonyme Pour L' Etude Et L' Exploitation Des Procedes Georges Claude.—163053.
 Lakhotia, S.C.—161679.
 Lal, A.K.—163815.
 Langreney, F.—164031.
 Lanxide Corporation.—163794.
 Larroche, M.H.R.—162448.
 Larsen & Toubro Ltd.—162466, 163035 & 163727.
 Larws, P.—163361.
 Laszlo, P.—162728.
 La Telemecanique Electrique.—162676.
 Latviisky Gosudarstvenny Universitet Imeni Petra Stuchki.—163262.
 Laval, C.C. (Jr.)—162911.
 Lazare Kaplan & Sons, Inc.—162091 & 162100.
 Lempert, D.A.—163813.
 Lenser Vermaltungs GmbH.—163375.
 Les Enterprises Triton Ltee.—163968.
 Lichtblau, G.J.—163532.
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 Lietmar Boenisch.—163736.
 Lieuse Technology Ltd.—161809.
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 Linde Aktiengesellschaft.—161770, 161946, 162396, 162561, 163123, 163133, 163134, 163606, 163640, 163850, 163923 & 163925.
 Lintvalve Electronic Systems Ltd.—162647.
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 Lister Institute of Preventive Medicine.—162779.
 Liversidge, B.P.—162354.
 Loevinger, R.P.—161977 & 162357.
 Lone Star Industries, Inc.—163449.
 Lonyai, P.—161642.
 Lonza Ltd.—162567.
 Lord Corporation.—162673 & 162900.
 Love, W.J.—162916.
 Lubrizol Corporation, The.—161606, 162409, 162587, 162745, 162820, 162875, 163405, 163431, 163584, 163700 & 163735.

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Lucas Industries Public Ltd. Co.—161682, 162334, 163139, 163140, 163344, 163501, 163539, 163549, 163943 & 164023.
 Luigi Granieri.—162303.
 Lummus Crest Inc.—161957 & 162272.
 Lummus Industries, Inc.—164001.
 Lvovich, F.I.—163077.
 Lyntech Corporation.—163821.

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M & I Heat Transfer Products Ltd.—162533.
 M & T Chemicals Inc.—161810, 162291 & 163565.
 MTA Termeszeitudomanyi Kutato Laboratoriumai.—163304.
 Machukas, V.B.B.—163077.
 Macneill & Magor Ltd. (M/S)—162869.
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 Magna Motive Industries.—162792.
 Magyar Aluminiumipari Troszt.—163932 & 163986.
 Mahindra Owen Ltd.—162015, 162016, 162038 & 162461.
 Majumdar, B.N.—162560.
 Mallick, A.K.—163703.
 Mallick, K.N. (Dr.)—161827 & 161828.
 Mallik, K.N.—163056 & 163057.
 Mallinckrodt, Inc.—161762 & 161763.
 Mallya, M.S.—162054.
 Mannesmann Aktiengesellschaft.—162974 & 163982.
 Maan Mechanical Works.—163852.
 Mani, S.—163316.
 Manvilie Corporation.—163769.
 Manville Sales Corporation.—162782.
 Maremont Corporation.—163682.
 Mars Alcatel.—162672.
 Martin, F.M.—163715.
 Martin, I.C.—162312.
 Marwah, A.S.—163141.
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 Masaru Hattori.—162668.
 Maschinenfabrik Rieter AG.—161964, 162191, 162582, 162661, 162704, 162849, 162973, 163298, 163508, 163608 & 163635.
 Massey-Ferguson Services N.V.—161621, 162182, 162422, 163029 & 163305.
 Masonellan International, Inc.—162836.
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 Maverick Microsystems International, Inc.—161838.
 Mazanko, A.F.—163077.
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 Mc Coy, L.A.—163467.
 McGaw-Edison Co.—163075.
 Mcsherry, T.W.—162273.
 Meade, J.—163816.
 Mechanical Technology Incorporated.—162450 & 163267.

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Mediolanum Farmaceutical SRL.—163520 & 163616.
 Meenakshisundaram, C.S.—162608.
 Megaban Explosives Corporation.—162619.
 Mehta, A.J.—163259.
 Mehta, M.K.—163686.
 Meier, K.—162541.
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 Merck Patent Gesellschaft Mit Beschränkter Haftung.—162364, 162423 & 163738.
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 Metallgesellschaft Aktiengesellschaft.—162689, 162716, 162904, 163097, 163285, 163406, 163802, 163966, 163996 & 164017.
 Metal Box PLC.—161683, 162281, 162392, 162477, 162605, 162726, 162838, 163542 & 164024.
 Metacon Aktiengesellschaft.—161760, 162077, 162475, 163657, 163970 & 164014.
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 Metallurgical & Engineering Consultants (I) Ltd.—161917, 161919, 162599, 162929, 163329, 163570 & 163969.
 Metaux Speciaux S.A.—162925.
 Meyhall Chemical AG.—162625.
 Mezhotraslevoi Golovnoi Konstruktorsko Tekhnolo Gichesky Institut Tekhnologicheskoi Osnastki (MGKTI TEKHOS-NASTKI).—162309.
 Michelin & Cie.—161601, 161631 & 163944.
 Microwave Applications Group.—163471.
 Midrex International B.V.—164016.
 Mills, R.I.—162059.
 Minenco Pty. Ltd.—163599.
 Mineral deposits Ltd.—162932.
 Minnesota Mining & Mfg. Co.—161933 & 163853.
 Minitronics Pty. Ltd.—162395.
 Minsky Motorny Zavod.—161774.
 Mirchandani, A.S.—162074.
 Mishra, P.K.—162576.
 Mistry, A.H.D. (Mr.)—163685.
 Mittal, B.L.—163825.
 Mitra, S.K.—163708.
 Mitsuba Electric Mfg. Co. Ltd.—163474.
 Mitsubishi Denki Kabushiki Kaisha.—162033, 162394, 163154 & 163300.
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 Mitsubishi Mining & Cement Co. Ltd.—162743.
 Mitsubishi Delting Ltd.—162773, 163505, 163787 & 163930.
 Mitsui Ocean Development & Engineering Co. Ltd.—163806.
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 Mkenna, J.J.—161673.
 Mobil Oil Corporation.—161766, 162221, 162224, 162225, 162226, 162282, 162778, 163144, 163145, 163146, 163147, 163223, 163429, 163521, 163633, 163634, 163751, 163772, 163773, 163774, 163775 & 163987.
 Mobil Solar Energy Corporation.—163827.
 Modern Balance Works.—162494.

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Mohandas, R.—163299.
 Mohanti, D.N.—162072.
 Moli Energy Ltd.—162598.
 Moonil Oil Corporation.—163776.
 Monsanto Company.—163601.
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 Morgan Construction Co.—161705, 161709 & 162917.
 Mornex Ltd.—162799.
 Moskovesky Nauchno Issledovatelsky Institut Mikrokhirurgii Glaza.—161923 & 163355.
 Moskovsky Nauchno Issledovatelsky Institut Tuberkuleza—162949.
 Motan Gesellschaft Mit Beschränkter Haftung.—162964.
 Moti, J. C.—162694.
 Mukherjee, R. N.—162669.
 Muller, R.—162746.
 Mulhaupt, R.—162070.
 Multi—Arc Vacuum System, Inc.—162181.
 Munshi, K.—162180.
 Munshi, S.S. D.—162208.
 Munters Euroform GMBH.—163083.
 Murali, D. K.—163933.
 Musical String Research Bureau.—163452 & 163889.

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NGK Insulators, Ltd.—163114.
 NL Industries, Inc.—163436, 163468 & 163469.
 NRM Corporation.—161875.
 N.V. Philips Geoeilampenfabrieken.—163962.
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 N.V. Sky Climber Europe S. A.—163027.
 Nabisco Brands Inc.—162308, 163334 & 163666.
 Nagarkar, V. V.—162017.
 Naik, M.V. R.—163370.
 Narain, J. (Dr)—162679.
 Narasimhan, R. D.—162493.
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 National Aeronautics & Space Administration.—163005.
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 National Research Development Corporation.—163441, 163649 & 163829.
 Nauchno-Issledovatelsky Institut Khimikatov Dlya Polimernykh Materialov.—161812.
 Nauchno-Proizvodstvenoe Obiedinenie "SOLNTSE" Akademii Nauk Turkmeneskoi SSR.—162164.
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 Nazarov, V. K.—161853.
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 Necchi Societa Per Azioni.—162735 & 162955.
 Nederlandse Centrale Organisatie Voor Toegepast-Natuurweten.—163473.
 Neff Gewindespineln GMBH.—162195.
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 Naundorfer, Inc—162822.
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 Nicholls, D—162507.
 Niteck Pty Ltd—162712.
 Niky Tasha (India) Pvt. Ltd—161803, 162502, 162503, 162572, 163237 & 163238.
 Nippon Chemiphar Co. Ltd—162060, 162767 & 163044.
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 Nitto Chemical Industry Co. Ltd—162232.
 Nitro Kohki Co. Ltd—163435.
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 Nordeutsche Affinerie AG—162783.
 Norman, R—163470.
 Norsk Hydro A. S—161708 & 163232.
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 Novavis International, Ltd—162583.
 Novo Industrie A/S—161740.
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O & K Orentein & Koppel Aktiengesellschaft—164019.
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 Olsen, R. R.—162322 & 162328.
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 Oriental Appliances (P) Ltd.—162136 & 162231.
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 Oronzio De Nora S. A.—162266.
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 Ortho Pharmaceutical Corporation—162709.
 Otdelenic Vsesojuznogo Nauchno-Issledovatel'skogo Instituta Elektrotermicheskogo Oborudovania V Gorode Kharkove—163281 & 163692.
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 Owens-Corning Fiberglas Corporation—161895 & 162870.
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P.G.E.P. Professional General Electronic Products—163831.
 PPG Industries, Inc—163589 & 164035.
 Palaniswamy, S. N—163661.

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Pall Corporation—162484 & 162795.
 Palffy, E—162954.
 Palitex Project Company GMBH—162053, 162402, 163367 & 163506.
 Pannalal, N—162020 & 162178.
 Panchal, R. N—162040.
 Papkovsky, R. P—162249 & 162901.
 Paradkar, L.V. (Smt)—162207.
 Paramount Sinters Pvt. Ltd—163499.
 Parekh, I. H—163681.
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 Parikh, N. G—161761.
 Parker, L. W—162674.
 Parker Pen Co., The—162532.
 Parthasarathy, L. R—162628.
 Parui, M. M—161913.
 Pattabhi, V—163860.
 Patel, K. A—161761.
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 Patwardhan, R. G—162467.
 Paul Opprecht—161906.
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 Pavljukov, J. V—162249.
 Pavlodarsky Ajumimiciv Zavod Imeni—162200.
 Pawar, M. D (Dr)—162464.
 Peakmicro Ltd—162508.
 Pebco, Inc—163023.
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 Peico Electronics & Electricals Ltd.—163559.
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 Perkins Engines Group Ltd—162005 & 162781.
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 Personal Products Company—161626, 161891, 162150 & 163866.
 Persson, J.F.—162337.
 Pfizer Inc—162090, 162523, 162525, 162526, 162851, 162853, 163162, 163168, 163170, 163263, 163393, 163394, 163420, 163443, 163553 & 163586.
 Pharos Inventions AG—163338.
 Philadelphia Gear Corporation—161675 & 162317.
 Phillips Petroleum Company—163533
 Piaggio & C.S.P.A.—161826 & 163823.
 Pichakchi, A.F.—163742
 Pidilite Industries Pvt. Ltd.—163037.
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 Pirovano, C.—162897.
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 Poddar, K.P.—163977.
 Polymer Tectonics Ltd.—162324.
 Pont-A-Mousson S.A—162835 & 163782.
 Portals Engineering Ltd.—163509.
 Post Office, The—161684.

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Potemkin, G.Y.—162649, 163462 & 163680.
 Prayon Development S.A.—162933.
 Prech, Elektrofeinmechanischewerke Jakob Prech Nachf GMBH & Co.—162170 & 163357.
 Precision Mouldings Pvt. Ltd.—163873.
 Preussag Aktiengesellschaft.—163466.
 Primatex Machinery Pvt. Ltd.—162019.
 Process Evaluation & Development Corporation.—163817.
 Progress Equities Incorporated.—163266.
 Proizvodstvennoe Geologicheskoe Obiedinenie Tsentralnykh Raionov "TSENTRGEOLOGIA".—162490.
 Proizvodstvennoe Obiedinenie "MINSKY MOTORNÝ ZAVOD".—163115.
 Proizvodstvennoe Obiedinenie "Turbomotorny Zavod Imeni K.E. Voroshilova".—162000.
 Proizvodstvennoe Obiedinenie Turbostroenia "LENINGRADSKY METALLICHESKY ZAVOD".—163421.
 Projects & Development India Ltd.—161700, 161835, 163801 & 163950.
 Prosnip Corporation.—161783
 Provesan, S.A.—161011.
 Puraq Co. The.—162757.
 Pyrenco, Inc.—163432.

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Quamco Inc.—164021.
 Quantum Diagnostics Ltd.—161886.

—R—

RCA Corporation.—162554.
 Radcliff, F.T.—161910.
 Radhakrishnani, G.B.—162634 & 162635.
 Raghbir, S.—162066.
 Rajagopalan, K.S.—162352.
 Raju, K.V.S.T.—163607.
 Raju, R.D.—162432.
 Raju, S.—163370.
 Rallis India Ltd.—163260 & 163261.
 Randall Corporation, The.—163381.
 Rangaswamy, S.D.N.—162234.
 Rao, L.G.—162239.
 Rao, M.P.—162419 & 162420.
 Rathode, K.D.—162468.
 Ratnaparkhi, P.K.—163875.
 Raychem Corporation.—163989.
 Raychem Limited.—162848, 163202 & 163424.
 Reanal Finomvegyszergyar.—162894 & 163164.
 Reckitt & Colman of India Ltd.—161748, 161901, 161950, 161967 & 163459.
 Reddy, D.M.—162493.
 Rees Construction Services Ltd.—162734.
 Regents of the University of Minnesota.—161797.
 Registrar, Indian Institute of Technology.—163703.
 Registrar, University of Calcutta, The.—161758.
 Reliance Electric Company.—162958, 163151 & 163239.
 Remsons Cables Pvt. Ltd.—162179.
 Research Association for Petroleum Alternatives Development.—162787.
 Reutsky, V.F.—163882.

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Revlon, Inc.—162924 & 163358.
 Reynolds Metals, Co.—162689 & 163406.
 Rhone-Poulenc Films.—162051.
 Rhône-Poulenc Sante.—161663 & 162623.
 Rhône-Poulenc Specialites Chimiques.—163984.
 Richard, A.R.—162737.
 Richter Gedeon Vegyeszeti Gyar Rt.—162278, 162569, 162560, 162609, 162810, 162910, 163020, 163116, 163638 & 163913.
 Rieter Machine Works Ltd.—163341 & 163363.
 Rijksuniversiteit Utrecht.—162160.
 Rivermill Investment Pty. Ltd.—163203.
 Röberts, G.E.—163855.
 Roetrichties, D.D.—162013 & 162014.
 Relf Henning Willeim Steinbock.—161860.
 Ronalds Ace.—162829.
 Rosemount Inc.—162333.
 Ross, M.I.—163535.
 Rotabolt Ltd.—161772.
 Routh, P.K. (Sri).—163792 & 163881.
 Royal Ordnance PIC.—164003.
 Roy, K.N.—162669.
 Röy, S.—161852 & 161998.
 Roy, S. (Shri).—163537.
 Rubenberger, K.—163451.
 Rubber & Plastics Research Association.—162621.
 Ruhrchemie Aktiengesellschaft.—162644.
 Ruhrgas Aktiengesellschaft.—162227.
 Ruhrkohle Aktiengesellschaft.—162577.
 Ruhrtal-Elektrizitagesellschaft-Hästing GMBH & Co.—161638.
 Russell, C.G.—162070.
 Ruti-Te-Strake B.V.—162061.
 Ryzhkov, N.V.—163770.

—S—

S.A. Chaudronnerie Viry Et Fills.—162951.
 S.A.M.M. Societe D'Applications Des Machines Motrices.—162984.
 S B P, Inc.—162868.
 S.E.C.O. Engineering Co. Ltd.—162837.
 SKA Associates.—162985.
 SKF Kugellagerfabriken GMBH.—161727.
 SKF Nova AB.—163909.
 SKF Steel Engineering AB.—161603, 161958, 162320, 162433, 162480 & 162707.
 SKF Textilmaschinen-komponenten GMBH.—161870.
 SMS Schloemann Siemag AG.—163504.
 SPRP Tea Industries Pvt. Ltd.—161994, 162161 & 162162.
 SRP, Inc.—162024.
 STC PIC.—161667 & 162083.
 Sabod, D.P.—162194.
 Sahu, N.P.—162669.
 Saint-Gobain Recherche.—162556.
 Saint-Gobain Vitrage.—162382 & 162555.
 Salk Institute for Biological Studies, The.—163758.
 Salaview, V.G.—163770.
 Salomatin, S.P.—163742.

—S—

Salter, A.J.—162292 & 163236.
 Salter, Y.D.—162292 & 163236.
 Samancor Management Services (Pty.) Ltd.—164025.
 Samonite Corporation.—163905.
 Sampath, S. (Prof.)—162938.
 Samim Societe Azionaria Minerometallurgica SPA.—161733.
 Samsonite Corporation.—161789.
 Sanden Corporation.—162729, 162971, 162983, 162988, 163010, 163148, 163156, 163342, 163814, & 163835.
 Sandweö, H.E.—163092.
 Sanghani, S.K. (Dr.)—163254.
 Sanghavi, B.R. (Mrs.)—163491.
 Sanghavi, H.C.—163491.
 Santa-Barbara Research Centre.—161786 & 162084.
 Santrade Ltd.—162177 & 163143.
 Sanyal, A.K.—161965, 162025 & 163665.
 Satake Engineering Co. Ltd.—161863, 162007 & 162652.
 Sathaye, G.V.—163684.
 Sayeed, S.—163120.
 Scapa Pörritt Ltd.—161808.
 Schäde fordertechnik GMBH & Co.—163488.
 Schellstede, H.J.—162603.
 Schiesser, W.A.—163292.
 Schlaich, J. (Prof. Dr. Ing.)—163791.
 Schlotter, G. (Mrs.)—163668.
 Schlumberger Ltd.—162122, 162141, 162847 & 163651.
 Schlumberger Technology Corporation.—161671, 162776, 163152 & 163320.
 Schmid Laboratories, Inc.—163124.
 Schubert & Salzer Maschinenfabrik Aktiengesellschaft.—161751 & 163931.
 Schweissindustrie Oerlikon Bührle AG.—162348 & 163484.
 Schwiahag Gesellschaft fur Eisenbahnoberbau mbH.—162730.
 Scopas Technology Co., The.—161775.
 Sealed Power Corporation.—162514, 162593, 162905 & 162907.
 Searle (India) Ltd.—163724.
 Sears Manufacturing Company.—163004.
 Secretary, Ramkrishna Mission Vidyapith, The.—161837.
 Seikenkai Foundational Juridical Person.—162045.
 Shalimar Tea Products (1935) Ltd.—162184.
 Sharma, A.K.—162939.
 Shankhayān, S.D.—163240.
 Shegal, A.—163465.
 Shegal, B.K.—163465.
 Shell Internationale Research Maatschappij B.V.—161735, 162398, 162399, 162460, 163184, 163547, 163548, 163585, 163630, 163672 & 163910.
 Shell Oil Co.—161692.
 Sherrilt Godon Mines Ltd.—163273 & 163911.
 Shetty, M.H.P.—161882.
 Shin-Etsu Chemical Co. Ltd.—163117.
 Shivappabasavaraj, K.—161881.
 Shonetsugaku Kenkyusho Co. Ltd.—162142.
 Shridhar, V.K.—163496.
 Shri Ram Institute for Industrial Research.—162527, 162937, 163270, 163422, 163551, 163552, 163718, 163839, 163840 & 163906.

—S—

Sicpa Holding S.A.—161851.
 Siemens Aktiengesellschaft—161632, 161680, 161915, 161925, 162073, 162109, 162159, 162169, 162185, 162349, 162361, 162368, 162381, 162403, 162406, 162711, 162827, 162966, 163045, 163064, 163086, 163198, 163309, 163330, 163380, 163403, 163475, 163483, 163572, 163747, 163748, 163894, 163898, 163951, 164000, 164018, 164043 & 164047.
 Sigma-Tau Industrie Farmaceutiche Riunite S.P.A.—162047.
 Singaravelu, S.—163789.
 Singh, H.—164010.
 Singh, P.—161618.
 Singh, R.—163455.
 Singh, R.K.—163481.
 Singh, R.P.—162579.
 Sinha, A.—163365.
 Sinha, A.P.—162669.
 Sinha, N.B. (Dr.)—164020.
 Sintermetalwerk Krebsoge GMBH.—162188.
 Sivaprasad, P. (Dr.)—163510.
 Smith Valve Corporation.—162094.
 Snamprogetti S.P.A.—163347.
 Snia Fibre S.P.A.—162592.
 Societe Anonyme D'Etudes, De Productions D' Agents Chimiques-E.R.P.A.C.—161948.
 Societe Anonyme De Recherche Et D' Etudes Techniques.—161718.
 Societe Anonyme Monegasque Toutelectric.—162082.
 Societe Chimique Des Charbonnages S.A.—161641, 161753, 161793, 161795, 162130 & 163538.
 Societe D' Applications Generales D' Electricite Et De Mecanique (SAGEM).—163065, 163895 & 163918.
 Societe De Conseils De Recherches Et D' Applications Scientifiques (S.C.R.A.S.).—163846.
 Societe D' Etudes Scientifiques et Industrielles de ille de France.—162049, 163130 & 163319.
 Societe D' Etudes Scientifiques et Industries Del'ile Del France.—163430.
 Societe Des Products Nestle SA.—161773, 162046, 162318, 162438, 162568, 162839, 163012, 163128, 163637, 163753, 163757 & 163759.
 Societe Des Electrodes Et Refractories Savoie (SERS).—161625 & 162306.
 Societe Generale Des Eaux Minerales Des Vittel.—162293.
 Societe Nationale Des Poudres Et Explosifs.—162099, 162523 & 162855.
 Societe Nationale Elf Aquitaine (Production).—161847, 161848, 161849, 162258, 163181 & 163985.
 Societe Nationale Industrielle Aerospatiale.—161781, 163306, 163642 & 163828.
 Solanki, A.C. (Mrs.)—163972.
 Solanki H.V. (Mr.)—163972.
 Solco Basel AG.—161706.
 Sonex Research Inc.—163225 & 163991.
 Sony Corporation.—163621 & 163622.
 Southern Petrochemical Industries Corporation Ltd.—162139, 162140 & 163938.
 Spässkaya, E.K.—163077.
 Spessartweo, W.E.—163092.
 Spetsialnoe Konstruktorskoe Biuro Gidroimpulsnoi Tekhniki Sibirs'kogo Otdeleniya Akademii Nauk SSSR.—162486, 162786 & 163028.
 Sridhara, B.N.—162229.

—S—

Srimannarayana, G.—163779 & 163780.
 Srinivasan, R.—163365.
 Srivastava, P.S.—162247.
 Staedler & Uhl.—162817 & 163024.
 Stamicarbon B.V.—161655, 162233, 162564, 162723, 163369 & 163848.
 Stanadyne Inc.—162828.
 Standard Oil Co., The.—162578, 163234 & 163907.
 Standard Telephones & Cables PIC.—162935.
 Stauffer Chemical Company.—161685, 161713, 162240, 162602, 162695, 163639 & 163777.
 Steam Vacuum Extraction Ltd.—163856.
 Steel Authority of India Ltd.—161645.
 Steels Worth Pvt. Ltd. M/S.—162302.
 Stefan Svensons.—162119.
 Stein Industrie.—161829, 162294, 162325, 162624, 162680, 163679 & 164006.
 Sticht, W.—163993.
 Stone & Webster Engineering Corporation.—162162 & 163593.
 Stoping Aktiengesellschaft.—161930 162686 & 163284.
 Strohbeen, J.—163556.
 Sturm, Ruger & Co. Inc.—163137.
 Subramaniam, V.A.—163461.
 Sudarshan Chemical Industries Ltd.—162210.
 Sulzer Bröthers Ltd.—161871, 162341, 162580 & 163908.
 Sumacher, S.I.—162249 & 162901.
 Sumitomo Chemical Co. Ltd.—161689, 161690, 162043, 163426 & 163746.
 Sumitomo Electric Industries.—162397.
 Sumitomo Heavy Industries Ltd.—162126.
 Sumitomo Metal Industries Ltd.—161687.
 Sunda, A.—162066.
 Surgikos, Inc.—163670.
 Suri, S.C.—163963.
 Survival Technology, Inc.—162113.
 Swiss Aluminium Ltd.—163252.
 Sylvachem Corporation.—161716.
 Synfin-A-Olefina S.A.—162883.
 Syntex (U.S.A.) Inc.—162273, 162289 & 162770.
 Szebeni, R.—162846.

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T I Corporate Services Ltd.—163155.
 T.J. Gundlach Machine Co.—162999.
 T L V Company Ltd.—162890 & 163096.
 T.M.H. Thassiyot Mishnor Haemek Ve-galed (Tama Plastic Industries).—161778.
 T.P.O. "PHARMACHIM".—162041.
 T R I-Steel, Inc.—163205.
 T R W Ehrenreich GMBH & Co. KG.—163978.

Takeda Chemical Industries Ltd.—162659 & 162660.

Tandem Computers Incorporated.—162543, 162544 & 162545.

Faniguchi, H.—162913.

Fanjant Tool Co.—163859.

Fashkentskoe Spetsialnoe Konstruktorskoe Bjuro Textilnykh Mashin.—163307.

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Tata Engineering & Locomotive Co. Ltd.—163257 & 163726.
 Tata Iron & Steel Co. Ltd., The.—161818 & 161819.
 Tata Research Development & Design Centre.—161975 & 163976.
 Tata Robins-Fraser Ltd.—161927.
 Tea-Ma Consortium India Ltd.—161865.
 Tea Research Association.—163067.
 Tea Technocrats, The.—163487.
 Techmechtron Pvt. Ltd.—161681 & 161951.
 Technicon Instruments Corporation.—163272.
 Technison Instruments Corporation.—163818.
 Technovar Italiana S.P.A.—163201.
 Tecumsch Products Co.—162764.
 Teikoku Hormone Mfg. Co. Ltd.—162048, 162439, 162700 & 163755.
 Telefonaktiebolaget IM Ericsson.—161619 & 163811.
 Terckhov, N.I.—163770.
 Tetra Pak International AB.—162761 & 163636.
 Texaco Development Corporation.—162106, 162812 & 163885.
 Thamilarasi, K.—162237.
 Tharumalayaperumalmuthu.—161953.
 Thillalaimmal, K.—162237.
 Thirumaran, T.—162237.
 Thomas, I.—163766.
 Thomas, K.M.—162132 & 162133.
 Thomas, K.T.—163006.
 Thomas, M.—163132.
 Thomson C.S.F.—162444.
 Thos. Word (Railway Engineers) Ltd.—161934.
 Thyssen Stahl Aktiengesellschaft.—162516, 162816 & 163954.
 Timar, G.—161642.
 Tiwari, R.V.—162011.
 Tokyu Musashi Mfg. Co. Ltd.—162511.
 Topo Engineering Corporation.—161868.
 Toth Aluminium Corporation.—161643.
 Touillet, E.—163018.
 Toyama Chemical Co. Ltd.—163562 & 163740.
 Treschenko, V.G.—162249.
 Tri-tech Systems International, Inc.—163531.
 Trivedi, K.—162180.
 Troshin, V.I.—163327.
 Trutzschler GMBH & Co. KG.—161719, 162591, 162942, 163094, 163111, 163239, 163612, 163617 & 163765.
 Trutzschler GMBH & Co. KG.—161815.
 Tsai, K.L.—161743.
 Tsöfina, G.I.—163327.
 Tube Investments of India Ltd.—162236 & 162391.
 Tucker, M.C.—162401.
 Tulserate Ltd.—162483.

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UOP Inc.—161824, 161880, 161974, 161976, 162092, 162095, 162321, 162326, 162526, 162834, 162878, 162893, 163059, 163173, 163389, 163412, 163720, 163843 & 163845.
 Uhde GMBH.—162238 & 163131.
 Ukrainsky Nauchno-Issledovatolsky Uglekhimichesky Institut.—162611.

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Ultraseal International Ltd.—163442.
 Unie Van Kunstmesfabrieken B.V.—162234, 162235, 162987 & 163010.
 Unilever PLC.—162193 & 163580.
 Union Carbide Corporation.—161785, 162111, 162732, 162784, 163055, 163427, 163428, 163604, 163674, 163783 & 163936.
 Union Carbide India Ltd.—161936, 161939, 162067 & 163655.
 Union Oil Co. of California.—162990, 163042 & 163760.
 Union Siderurgique Du Nord Et De L'Est Della France.—163013.
 Union Steel Corporation, The.—163851.
 Uniroyal Englebert Reifin GMBH.—163142.
 Uniroyau Englebert Textilcord S.A.—162804.
 Uniroyal, Inc.—163623 & 164032.
 Uniroyal Ltd.—163673.
 Unisystems Pvt. Ltd.—163178 & 163179.
 United States Brass Corporation.—163921.
 United Technologies Corporation.—162026 & 163804.
 Unitek Copiers Pvt. Ltd.—163277.
 Unitex Copiers Pvt. Ltd.—163220.
 University of Southampton.—163576.
 University of Sydney, The.—164038.
 Upadhyaya, I.—161646.
 Uraca Pumpenfabrik GMBH & Co. K.G.—162824.
 Urban Transportation Development Corporation Ltd.—162920.
 Ureh, J. F.—163705.
 Usha Atlas Hydraulic Equipment Ltd.—162269, 162315, 163567 & 163568.

—V—

V. I. P. Industries Ltd.—163690 & 163876.
 V. I. Churchill Ltd.—162777.
 Vacuum Interrupters Ltd.—162088.
 Vaidyanathan, J. G. I.—161887.
 Val Reefs Exploration & Mining Co. Ltd.—16222.
 Val Lesina Spa.—163597.
 Valmet Oy.—162388.
 Vallourec.—162687, 163174, 163611 & 164036.
 Valzhskoe Obiedinenie Po Proizvodstvuheskoykh Avtomobilei (ANTOVAZ).—163904.
 Van Meegen Constructions Pty. Ltd.—161988.
 Vaseiko, A. I.—163770.
 Vasudao, S.—162807.
 Veb Gaskombinat Schwarze Pumpe.—162120.
 Veb Kombinat Feinmechanische Werke Halle.—161635 & 162264.
 Veb Kombinat Kraftwerksanlagenbau.—163022.
 Veb Kombinat Medizin-Und Labortechnik Leipzig.—161604 & 161794.
 Veb Kombinat Nagema.—162384 & 163049.
 Veb Kombinat Polygraph Werner Lamherz "Leipzig".—161635 & 162305.
 Veb Rohrkombinat Stahl-Und Walzwerk Reisa.—164049.
 Veb Schwermaschinenbau "KARLIEBKNECHT".—161909 & 163402.
 Veb Stahl-Und Walzwerk "WILHEIM FIORIN".—163408.
 Veitscher Magnesitwerke Aktiengesellschaft.—162145.
 Venkatachalamapathy, G.—162832.
 Venkatachari, R. A. G.—162352.
 Venkatadri A. S. (Dr).—163654.
 Vereinigte Fulikorper-fabriken GMBH & Co.—161729.
 Vergheze, P.—163937.
 Vianini Industria S. P. A.—163472.
 Vickers, Incorporated.—161759, 162710, 163379 & 163737.
 Victor, P. R.—162664.
 Vijayan, T. A. P.—163121.
 Vikata, C. N. (Mrs).—162008.
 Vikas Engineering Corporation.—162495.
 Vishwakarma, V. (Sri).—162462.
 Viswanathan, M.—162352.
 Voest-Alpine Aktiengesellschaft.—161839, 161896, 161995, 162122, 162145, 162350, 162789, 162798, 162866, 163069, 163100, 163326, 163340, 163388, 163456 & 163515.
 Volta Power Belting Ltd.—162036.
 Voltas Ltd.—163249.
 Vora, H. R.—163491.
 Vora, J. R.—163491.
 Vora, N. J. (Mrs).—163491.
 Vostochny Nauchno-Issledovatelsky Uglegkhimichesky Institut (VUKHTN).—163577.
 Vsesojuzny Institut Po Proektirovaniyu Organizatsii Energeticheskogo Stroitielstva "Orgenergostroi".—162922.
 Vsesojuzny Institut Po Proektirovaniyu Organizatsii Energeticheskogo Stroitelstva "ORGENERGOST ROI".—162749, 163115 & 163328.
 Vsesojuzny Promyshlennosti Gorno-Metallurgichesky Institut Tsvetnykh Metallov.—161943.
 Vsesojuzny Nauchno, Issledovatelsky I Ispytatelsky Institut Medit-inskoi Tekhniki.—162029, 162888, 162923, 163119 & 163489.
 Vsesojuzny Promyshlennosti I Konstruktorsky Institut Po Obrudovaniyu Dlya Shinnoi Promyshlennosti "NIISHIN-MASH".—161866.
 Vsesojuzny Promyshlennosti I Proektnokonstruktorsky Institut Po Avtomatirovannomu Elektroprivodu V Promyshlennosti Seiskom Khozyaistve I Na Transporte (VNIELEKTROPRIVOD).—163082.
 Vsesojuzny Promyshlennosti I Proektny Institut Aljuminievoi Magnievoi I Elektrodnoi Promyshlennosti.—161900, 162027, 162200, 162215, 162346, 162482, 162818 & 163525.
 Vsesojuzny Nauchno Issledovatelsky Proektnokonstruktorsky I Tekhnologichesky Institut Elektrotermicheskogo Obrudovaniya (VNIIETO).—163578.
 Vsesojuzny Promyshlennosti Institut Genet IKI I Ssiektsii Promyshlennykh Mikro Organizmov (VNIIGENETIKA).—162268.
 Vsesojuzny Promyshlennosti Institut Ispolz vanagaza V Nardonm Khozyaistve I Podzemnogo Khranenja Nesti Neeteproduktov I Szhizhennykh Gazov Vniipremgaz.—162147.
 Vsesojuzny Nauchno-Issledovatelsky Institut Meditsins Kikh Polimeirov.—162949.
 Vsesojuzny Promyshlennosti Institut Metallurgichesky Teplotekhniki.—162378.
 Vsesojuzny Nauchno-Issledovatelsky Institut Metiznoi Promyshlennosti "VNIMETIZ".—161787.
 Vsesojuzny Promyshlennosti Institut Myasnoi Promyshlennosti.—163082.

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Vsesojuzny Nauchno-Issledovatelsky Institut Osobo Chistykh Biopreparatov.—163693.
 Vsesojuzny Promyshlennosti Institut Osobo Chistykh Biopreparatov.—162115.
 Vsesojuzny Nauchno-Issledovatelsky Institut Zheleznodor-Ozchnogo Transporta.—161711.
 Vsesojuzny Nauchno-Issledovatelsky Proektno-Konstruktorsky I Tekhnologichesky Institut Vzryvozaschischnogo Rudnichnogo Elektrooborudovania.—163336 & 163992.
 Vyaskumny Ustav Chemickych Vlaken.—161935.
 Vyas, M. M.—163258.

—W—

W & A Bates Ltd.—163663.
 W. M. R. Stewart & Sons (Hacklemakers) Ltd.—162720.
 W. R. Gore & Associates, Inc.—163159.
 W. R. Grace & Associates, Inc.—161752.
 Wacker-Chemie GMBH.—163544.
 Wade Hylton Blazley.—163833.
 Wadhwana, P. I.—163803.
 Waddington, R. L.—163855.
 Wallis, B. J.—162310.
 Walther & Cie AG.—162618.
 Warman International Ltd.—161816.
 Warner & Swasey Co., The.—163167.
 Washington University Technology Associates, Inc.—163667.
 Wayne State University—161769.
 Wedel, K. V.—161737.
 Wehnberg, N. L.—162985.
 Werfte, J. A. V. D.—162298.
 Werzalit-Werke J. F. Werz KG.—162424.
 Westinghouse Brake & Signal Co. Ltd.—162248. 162358, 163188 & 163390.
 Westinghouse Canada Inc.—163112.
 Westinghouse Electric Corporation.—161622, 161696, 161712, 161715, 161723, 161744, 161749, 161861, 161902, 161907, 161916, 161924, 161928, 161993, 162009, 162010, 162155, 162192, 162342, 162366, 162429, 162590, 162617, 162705, 162830, 163046, 163050, 163070, 16384, 163085, 163333, 163371, 163377, 163434, 163656, 163697, 163731, 163732, 163798, 163805, 163858 & 163998.

—W—

West Point- Pepperell, Inc.—161944.
 White Consolidated Industries, Inc.—161971, 161978, 162329, 163051, 163060 & 163227.
 Whiteing, R. G.—161665.
 Widia (India) Ltd.—161768, 162981 & 163754.
 Williams, C. J.—162116.
 Wildemeersch Dirk.—161985.
 Wilkinson, W. T.—161707.
 Wiltshire Consolidated Ltd.—162144.
 Wrightcel Ltd.—163822.
 Wyler AG.—162946.

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Xerox Corporation.—161742, 161941 & 162841.

—Y—

Yakov, J. A.—162901.
 Yamato Iron Works Co. Ltd.—162653.
 Yang, T. H.—162021 & 163226.
 Yanmar Diesel Engine Co. Ltd.—162972.
 Youngblood, J. F.—162603.

—Z—

Zaklady Azotowe Im Feliksa Dzierzynskiego—162110.
 Zaklody Chemiczne "ORGANIKA-ZACHEM"—161697.
 Zaklady Produkcji Urzadzen Mechanicznych IM Janka Krasickiego Elwo—1761855 & 163323.
 Zboil, V. G.—162070.
 Zellweger Uster Ltd.—162286, 162612 & 163312.
 Zimmern, B.—163048.
 Zollweger Uster Ltd.—162056.
 Zozulya, I. I.—162219 & 163882.
 Zwart, K.—162803..

[Continuity from
Section-G follows]

**SUBJECT MATTER INDEX AS PER INTERNATIONAL CLASSIFICATION
SYSTEM OF THE COMPLETE SPECIFICATION ACCEPTED & NOTIFIED
DURING THE YEAR-1990**

[Date of specification in 2nd column denotes; Date of Complete specification/Anti-date/Post-date. 4 classes of applicants Code in the 7th Column are the abridged forms : i.e. I=Indian Individual; IC=Indian Company; F=Foreign Individual; FC=Foreign Company.].

SECTION-H : ELECTRICITY.

No case was accepted within the following classes.

H	02	M	: Apparatus for conversion between ac and ac, between ac and dc, or between dc and dc, and for use with mains or similar power supply systems; Conversion of dc or ac input power into surge output power; Control or regulation thereof.
H	03	G	: Control of amplification.
H	04	H	: Broadcast communication.
H	04	K	: Secret communication: Jamming of communication.
H	04	S	: Stereophonic systems.
H	05	C	: Electric circuits or apparatus specially designed for use in equipment for killing; stunning, enclosing or guiding living beings.
H	05	I	: Static electricity; Naturally-occurring electricity.

SECTION-H : ELECTRICITY

H 01 : BASIC ELECTRIC ELEMENTS.

H 01 B : Cables; Conductors; Insulators; Selection of material for their conductive insulation, or dielectric properties

Specn. No.	Date of Specn.	Applicant for patent	Title of the Invention	Date of Notifi- cation	Int. Class	Indian Classi- fication	Appli- cant Code
1	2	3	4	5	6	7	8
163821	15-07-86	METALLGESELLS-CHAFT AKTIENGESELLSCHAFT.	A process of applying an electrically insulating layer to sheet steel.	20-01-90	3/00	48-C	1C
166177	16-09-85	AMSTED INDUSTRIES INCORPORATED.	A method of manufacturing a wire rope and a wire rope manufactured thereby.	24-03-90	7/28.	162	FC.
166245	06-03-86	BP CHEMICALS LIMITED.	Compositions based on liquid polybutene and hydrocarbon waxes and intended mainly for the production of water proof and gas-tight cables and process for the preparation thereof.	31-03-90	3/30, 3/48.	152-D.	FC.
166467	27-02-87	NGK INSULATORS, LTD.	Pollution-proof insulators.	19-05-90	17/00.	48-D ₁	FC.
166493	01-11-85	W.L. GORE & ASSO- CIATES, INC.	A dielectric material having low dielectric constants.	19-05-90	3/30.	48-C	FC.
166601	29-10-85	PREFORMED LINE PRODUCTS COMPANY	A clamp assembly for clamping a power cable to an insulator.	09-06-90	17/16.	48-D & 68-C-1 Groups LVIII(3) & LVII(3).	FC.
166676	17-12-85	RAYCHEM CORPORATION.	Splice case.	30-06-90	7/28.	48-B- Group- LVIII(3).	FC.
166878	20-04-88	NGK INSULATORS LTD.	A suspension insulator.	28-07-90	3/00.	48 C & D-3, 4.	FC.
166931	23-10-85	PREFORMED LINE PRODUCTS COMPANY.	Assembly for attachment of overhead lines, specially power cable to an insulator.	11-08-90	17/06. 17/10.	48-A, 4 & 68-C- LVIII (3) & LVII (3).	FC.
167049	13-03-86	RAYCHEM CORPORATION.	A process for the preparation of an electrical device.	25-08-90	1/06.	3J-C- Group- LVIII(2).	FC.
167066	08-04-88	NIRMAL SINGH DHARAM SINGH MARAS.	An electrical wiring installation strip.	25-08-90	17/00.	68-B- LVII(3), 48B	I.
167168	28-01-88	NGK INSULATORS, LTD.	A suspension insulator.	15-09-90	3/00. 7/00. 17/00.	48-D ₁ , 3; 48-C.	FC.
167169	17-03-88	KRONE AKTIEN- GESELLSCHAFT.	Wire connector for cable wires.	15-09-90	7/00.	48-A; 2-B.	FC.
167325	19-09-86	MASCHINENFABRIK RIENHAUSEN GMBH.	Electrical insulating tube.	06-10-90	17/60.	48A ₁ & B, FC. Group- LVIII(3).	
167515	26-02-87	BICC PUBLIC LIMITED COMPANY.	An optical fibre element.	10-11-90	11/22.	48-A, 4- LVIII(3).	FC.

1	2	3	4	5	6	7	8
H 01 C : RESISTORS.							
167019	17-10-86	COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH.	An improved process for the manufacture of high sensitivity thermistors.	18-08-90	7/00.	31-C.	IC.
167188	31-03-86	RAYCHEM LIMITED.	An electrical connector for connecting a plurality of electrical lines.	15-09-90	7/10.	68-D-Group-LVII(3).	FC.
167250	30-04-86	BBC BROWN BOVERI LTD.	Process for the manufacture of a voltage dependent ceramic resistance based on ZnO, and a voltage dependent resistance thereof.	29-09-90	17/00.	31-C-Group-LVIII.	FC.
H 01 F : Magnets; Inductances; Transformers; Selection of materials for their magnetic properties.							
165981	12-03-86	SIEMENS AKTIEN-GESELLSCHAFT.	Current transformers and process of producing same.	17-02-90	3/00, 19/00, 29/00.	65-B-2.	FC.
166063	11-03-87	MWB MESSWANDLER-BAU AKTIEN-GESELLSCHAFT.	Combined high-voltage current and voltage transformer.	10-03-90	27/00.	65-B-1.	FC.
166408	07-10-86	WESTINGHOUSE ELECTRIC CORPORATION.	Electrical distribution apparatus.	28-04-90	31/00.	64-B-2	FC.
166487	11-02-86	ENERGY CONVERSION DEVICE INC.	Method of forming an isotropic hard magnetic alloy.	19-05-90	1/04,	9-D.	FC.
166504	26-11-85	UNION CARBIDE CORPORATION.	An improved method for the manufacture of a transformer.	19-05-90	27/10.	65	FC.
167074	06-03-87	WESTINGHOUSE ELECTRIC CORPORATION.	Method of constructing laminations of an amorphous alloy for use in a magnetic core.	25-08-90	27/26.	63-B	FC.
167076	10-04-87	WESTINGHOUSE ELECTRIC CORPORATION.	An instrument transformer.	25-08-90	40/10, 40/04, 40/06, 40/08.	69-B.	FC.
167455	26-05-86	LUCAS-TVS LIMITED.	A ballasted ignition coil for use in automobiles.	27-10-90	5/08.	65 B 2 Group-LVII(2).	IC.
167475	15-07-87	WESTINGHOUSE ELECTRIC CORPORATION.	Method of constructing a fixture for a window of a magnetic core constructed of amorphous metal and a magnetic fixture thereby produced.	03-11-90	3/00.	65-B-2.	FC.
167551	21-10-86	LINGARAJ PATNAIK.	Core and winding assembly for transformers.	17-11-90	27/28.	65-B-2.	J.
H 01 G : Capacitors, Rectifiers, detectors, switching devices, or light-sensitive devices of the electrolytic type							
167007	03-06-86	MECHANIKAI MUVEK.	Capacitor unit for power factor improvement.	18-08-90	9/00.	31-A.	FC.
165779	26-08-85	BBC BROWN BOVERI LTD.	Gas blast switch.	06-01-90	33/02.	69 K	FC.
165782	09-09-85	BBC BROWN BOVERI LTD.	Gas blast switch suitable for switching high voltage.	13-01-90	33/00.	69 K	FC.
165906	01-09-86	SIEMENS AKTIENGESELLSCHAFT.	An electric switch.	10-02-90	19/28.	69 E	FC.

1.	2.	3.	4.	5.	6.	7.	8.
165988	27-11-86	GOSUDARSTVENNY NAUCHNOISSLEDOVATELSKY ENERGETICHESKY INSTITUT IMENI G.M. GRZHIZH ANOVSKOGO.	Device or surge directional protection of transmission line employing carrier-current relaying.	17-02-90	71/74.	48 A1	1 C.
166004	07-01-87	PORTEX INSTRUMENTATION & CONTROLS.	A circuit breaker.	24-02-90	73/00.	69-A	1 C.
166005	17-01-86	ASSOCIATED ELECTRICAL INDUSTRIES LIMITED.	Interrupter/isolator.	24-02-90	83/00.	69-A	1 C.
166009	30-01-86	BRUSH SWITCHGEAR LIMITED.	Automatic sectionaliser for a three phase electrical supply.	24-02-90	83/00.	68-B.	1 C.
166087	06-11-86	1. VIKTOR ALEXANDROVICH BUDYKO, 2. ANDREI FEDSEEVICH IVANCHENKO 3. VLADIMIR MIKHAILOVICH KROKHMAL 4. VLADIMIR VLADIMIROVICH KONOVALENKO. 5. GEORGY VASILIEVICH NECHVOLODOV. 6. BORIS NIKOLAEVICH LASTOKHIN. 7. VELENTIN DMITRIEVICH KUTSOV.	Device for arcless switching of electrical circuits.	10-03-90	9/30, 9/54.	69-N	F.
166123	02-07-86	WESTINGHOUSE ELECTRIC CORPORATION.	Circuit interrupters.	17-03-90	51/08.	69-I.	1 C.
166222	09-04-86	ASSOCIATED ELECTRICAL INDUSTRIES LIMITED.	Switchgear operating mechanism.	31-03-90	83/00.	69-A.	FC.
166223	09-04-86	THE GENERAL ELECTRIC COMPANY P.L.C.	Differential relay to protect an electrical feeder.	31-03-90	3/00, 47/00.	69-I, B.	FC.
166286	07-10-86	ASHOK KUMAR GUPTA.	An automatic clock operated mechanical timer device.	07-04-90	7/00.	44.	I.
166328	25-06-86	WESTINGHOUSE ELECTRIC CORPORATION.	An electrical circuit breaker.	14-04-90	71/00.	69-A	FC.
166377	10-07-86	SIEMENS AKTIENGESELLSCHAFT.	A FUSE link especially applicable to a low voltage high current safety fuse.	21-04-90	83/10, 83/36.	64-A.	FC.
166390	02-09-86	COOPER INDUSTRIES, INC.	Circuit interrupter devices.	28-04-90	71/00.	69-A	FC.
166396	24-10-85	GOVINDARAJALU RAJENDRAN.	Fuse eject and "Shock Proof main switch".	28-04-90	85/54.	64-B ₂	I.
166446	27-10-86	SIEMENS AKTIENGESELLSCHAFT.	Electromagnetic switchgear.	12-05-90	36/00.	69-P	FC.
166542	10-04-87	WESTINGHOUSE ELECTRIC CORPORATION.	Circuit breaker with a visual fault indicator.	02-06-90	77/00.	69-A.	FC.
166545	11-05-87	SIEMENS AKTIENGESELLSCHAFT.	Electrical contact.	02-06-90	1/00.	69-E & F ₁	FC.
166631	14-07-86	Y.S. SECURITIES LIMITED.	Fuse or an alternating current power circuit.	30-06-90	85/16.	64-A.	FC.
166695	18-03-86	BBC BROWN BOVERI LTD.	An insulating gas filled and substantially cuboid shaped designed cast housing for a multi phase medium voltage switchgear.	30-06-90	71/02.	69-P Group LIX(1).	FC.

1	2	3	4	5.	6.	7.	8.
166735	24-04-86	VACUUM INTERRUPTERS LIMITED.	A contact for an electric switch.	14-07-90	1/00.	69-(0).	FC.
166736	24-04-86	VACUUM INTERRUPTERS LIMITED.	A contact for an electric switch.	14-07-90	1/00.	69-(0).	FC.
166990	28-04-86	BBC BROWN BOVERI LTD.	Gas blast circuit breaker.	18-08-90	33/06, 33/64.	69-I.	FC.
167076	10-04-87	WESTINGHOUSE ELECTRIC CORPORATION.	An instrument transformer.	25-08-90	47/00	69-B.	FC.
167087	10-02-86	BBC BROWN BOVERI LTD.	Gas blast switch.	25-08-90	33/86, 33/82.	69-K Group LIX(1).	FC.
167098	24-03-86	MITSUBISHI DENKI KABUSHIKI KAISHA.	A spring operating mechanism for an electrical switch.	01-09-90	3/06.	69-M LIX(1).	FC.
167118	20-02-84	INTERAND CORPORATION	An apparatus for sensing spatial coordinates of an object with respect to a surface.	01-09-90	67/00.	29-D & 206-E.	FC.
167156	15-05-87	WESTINGHOUSE ELECTRIC CORPORATION.	Improvements in or relating to circuit breaker with electrical disconnect means.	08-09-90	73/00, 75/00, 77/00.	69-G	FC.
167161	25-06-86	WESTINGHOUSE ELECTRIC CORPORATION.	An electrical circuit breaker.	15-09-90	71/00.	69-G	FC.
167229	30-05-88	DEGUSSA AKTIENGESELLSCHAFT.	Electrical contacts.	22-09-90	1/02.	64-A, 9-D.	FC.
167258	17-10-86	MERLIN GERIN	An operating mechanism of a high-rating multiple electrical circuit breaker.	29-09-90	5/00.	69-M- Group- LIX(1).	FC.
167285	11-07-86	MERLIN GERIN.	Low voltage miniature electrical circuit breaker having an adjustable thermomagnetic trip release.	29-09-90	37/54.	69-L- Group- LIX(1).	FC.
167460	18-02-88	INDIAN SPACE RESEARCH ORGANISATION.	Domestic electric shock protector.	27-10-90	83/00.	69-B- Group- LIX(1).	FC.
167560	18-06-87	KAREL HAVEL	An electromagnetically actuated switching device.	17-11-90	1/00, 36/00.	69-D. I.	FC.
167671	11-02-86	BBC BROWN BOVERI LTD.	Gas-blast circuit breaker.	08-12-90	33/12, 33/42.	69-K- Group- LVII(3).	FC.
167673	12-06-86	MITSUBISHI DENKI KABUSHIKI KAISHA.	Insulating operation rod for a porcelain clad gas circuit interrupter.	08-12-90	33/24, 33/42.	69-Q- Group- LIX(1).	FC.
167674	12-06-86	MITSUBISHI DENKI KABUSHIKI KAISHA.	Spring operating mechanism for a circuit interrupter.	08-12-90	33/36, 33/40.	127-D & H, Group LXV(1). 135 Group LXV(2). 69-G- Group- LIX(1).	FC.

1	2	3	4	5	6	7	8
167762	03-03-87	(1) ANDREI FEDOSE-EVICH IVANCHENKO. (2) VLADIMIR MIKHAILOVICH KROKHMAL. (3) VLADIMIR VLADIMIROVICH KONOVALENKO. (4) VIKTOR ALEXANDROVICH BUDYOKO. (5) BORIS NIKOLAEVICH LAS-TOCHKIN. AND (6) ALEXANDER LUKYANOVICH KHIZHNYAK.	Drum switch.	15-12-90	21/76.	69-E-LIX(1).	FC.
167781	25-06-86	WESTINGHOUSE ELECTRIC CORPORATION.	An electrical circuit breaker.	22-12-90	71/00.	69-G	FC.
167829	04-01-88	Y.S. SECURITIES LIMITED.	A fuse for an alternating current power circuit and three phase alternating current power circuit incorporating same.	29-12-90	85/00.	68-E ₃ .	FC.
167847	09-12-86	MERLIN GERIN.	Isolating switch of a metal clad installation with an annular earthed metal enclosure.	29-12-90	9/46, 33/24.	69-N-Group-LIX(1).	FC.
H 01 J : Electric discharge tubes or discharge lamps							
165824	04-08-86	SOURCE TECHNOLOGY CORPORATION	A flat visual display device.	20-01-90	31/66, 29/52.	194-T ₁	FC.
166317	06-10-86	VIDEOCOLOR.	A device for correcting the deflection effect due to a variation of the focusing voltage in trichromatic cathode ray tube with in line cathodes.	07-04-90	29/00.	194-C ₁₁	FC.
166440	01-10-86	VIDEOCOLOR.	An electron gun for a cathode ray tube and method of manufacturing a heating filament of said electron gun.	05-05-90	29/48.	194-C ₁ , 11.	FC.
166469	18-03-87	N.V. PHILIPS GLOEI-LAMPEN FABRIEKEN.	Colour display tube.	19-05-90	1/88.	194-C ₁ .	FC.
166497	09-12-85	INTERNATIONAL BUSINESS MACHINES CORPORATION.	Field-emission scanning auger electron microscope.	19-05-90	1/02.	146-D ₁	FC.
166505	28-11-85	IWASAKI ELECTRIC CO. LTD.	Metal vapor discharge lamp and method of producing the same.	19-05-90	61/02, 9/08.	194-C ₆	FC.
166686	18-06-86	VIDEO COLOR.	Magnetic deflecting yoke for cathode-ray tube with shortened neck.	30-06-90	31/00.	194-C(1),	FE.
166688	01-10-86	VIDEOCOLOR.	Machine for depositing a product on a plane horizontal surface of an object.	30-06-90	37/317, 194-B.		FC.
166689	01-10-86	VIDEOCOLOR.	Device for automatic simultaneous measurement of the respective distances between electrodes and the second grid of a trichromatic cathode tube gun.	30-06-90	31/00.	194-C-11.	FC.
167144	17-03-86	KABUSHIKI KAISHA TOSHIBA.	Electron tube.	08-09-90	29/94, 29/22.	194-C-2-A & B.	FC.
167272	25-03-86	KABUSHIKI KAISHA TOSHIBA.	Colour cathode ray tube.	29-09-90	29/07.	194-C, Group- LXIII (4).	FC.

1	2	3	4	5	6	7	8
167739	01-10-86	VIDEOTOLOR.	A device for the manufacture of bases for vacuum tubes.	15-12-90	29/00.	194-B-LXIII(4).	FC.
H 0h K : Electric Incandescent lamps							
166082	12-06-86	TUNGSRAM RESZV-ENYTARSASAG.	Soldering fixture particularly for sealing electric gas discharge tubes having a ceramic envelope.	10-03-90	3/00.	66-D ₇ .	FC.
H 01 L : Semiconductor devices; Electric solid state devices not otherwise provided for							
165761	19-05-84	ENERGY CONVER-SION DEVICES INC.	A semiconductor device.	06-01-90	15/00.	31-C	FC.
165962	23-09-85	BBC BROWN BOVERI LIMITED.	A thyristor with turn-off capability and a method of producing it.	17-02-90	29/74.	31-C.	FC.
166001	07-06-85	HUGHES AIRCRAFT COMPNY.	A gate array chip.	24-02-90	27/00.	206-E.	FC.
166243	12-02-86	STC PLC.	Bipolar transistor and method of manufacturing the same.	31-03-90	1/00.	206-E.	FC.
166431	03-04-86	ENERGY CONVER-SION DEVICES INC.	Improved method of manufacturing a semiconductor member of a substrate utilizing microwave energy.	05-05-90	7/00.	206-E.	FC.
166755	05-03-82	ENERGY CONVER-SION DEVICES INC.	A system for the continuous production of semi-conductor devices.	14-07-90	1/00.	98-I, 206-E.	FC.
166821	19-04-85	THE STANDARD OIL COMPANY.	Process of manufacturing a semiconductor film by depositing an amorphous semiconductor material on a substrate.	21-07-90	15/02.	194-C, 206-E.	FC.
166911	04-06-84	ENERGY CONVER-SION DEVICES INC.	An external isolation module in combination with a deposition apparatus in which semiconductor material is deposited on to a substrate.	04-08-90	15/00.	70-C ₅ , 206-E.	FC.
166919	21-07-86	ENERGY CONVER-SION DEVICES INC.	Ambipolar, high transconductance solid state electronic device.	04-08-90	15/00.	206-E.	FC.
166993	12-03-85	VIPIN CHAMPSEY SHAH.	An improved multifilament lamp.	18-08-90	1/00.	66 D 9, & D2- LXIII(1).	I.
167003	24-03-86	SOHIO COMMERCIAL DEVELOPMENT COMPANY AND ENERGY-CONVERSION DEVI-CES INC.	Apparatus for the continuous vapor deposition of semiconductor alloy material.	18-08-90	1/00.	194-C ₃ , 206-E.	FC.
167111	12-02-85	SOHIO COMMERCIAL DEVELOPMENT COMPANY AND BP PHOTO-VOLTAICS	A method of manufacturing a film of $Hg_{1-x}Cd_xTe$, on a conductive substrate.	01-09-90	15/02.	98-I ₄ , 194-C8.	FC.

1	2	3	4	5	6	7	8
167206	12-02-85	SOHIO COMMERCIAL DEVELOPMENT COMPANY, AND BP PHOTOVOLTAICS LTD.	A solar cell.	22-09-90	15/02.	194-C ₈ 98-I.	FC.
167242	31-03-86	AMSTED INDUSTRIES INCORPORATED.	Apparatus for obtaining the temperature of an object such as a railway wheel being heat treated.	29-09-90	35/00.	12-D & 146-E- Groups- XXXVIII (2) & XXXVIII(2).	FC.
167516	31-03-87	THE STANDARD OIL COMPANY.	A method of manufacturing a photovoltaic device	10-11-90	31/00.	146-C- XXXVIII (2).	FC.
167820	28-07-86	INTERNATIONAL BUSINESS MACHINES CORPORATION.	A dynamic random access memory device having a single-crystal transistor on a trench capacitor structure and a fabrication method therefor.	22-12-90	21/00.	206-E- Group- LXII.	FC.

H 01 M : Processes or means, e.g. batteries, for the direct conversion of chemical into electrical energy

165801	01-07-85	EUGENE WOZNIAK.	Lead acid storage battery.	13-01-90	35/00, 3/00.	14-C ₂	F.
165977	11-08-87	COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH.	Improved electrolytic cell for the production of calcium gluconate.	17-02-90	2/00.	70-C.	IC.
165552	03-07-85	SAB NIFE A.B.	Valve for the addition of water to electro-chemical accumulator batteries.	30-06-90	2/36.	14-CA.	FC.
166941	08-01-86	AMCO BATTERIES LIMITED.	A process for preparing dry-charged negative plates for lead-acid batteries.	11-08-90	4/04.	14-A.3 Group- LVIII(1).	1C.
166952	07-01-86	FURUKAWA DENCHI KABUSHIKI KAISHA, AND HONDA GIKEN KOGYO KABUSHIKI KAISHA.	Storage battery.	11-08-90	2/04, 2/20, 10/04.	14-A.2- Group- LVIII(1).	FC.
167036	29-07-86	SAFTI.	A method for the manufacture of a polymer consolidated iron oxide based electrode for alkaline storage cells.	18-08-90	4/52	70-B	FC.
167402	05-05-86	ELKE OSCHMANN.	The device for automatic filling battery cells with water.	20-10-90	2/36.	14-C— Group— LVIII(1).	F.
167672	11-06-86	SOCIEDAD ESPANOLA DEL ACUMULADOR TUDOR.	Electric accumulator battery with improved handle and terminal locations.	08-12-90	2/10,	14-A(1)— Group— LVIII(1).	F.

H 01 P : Waveguides; Resonators; Lines or other devices of the waveguide type

166636	07-11-86	DIGITAL EQUIPMENT CORPORATION.	Local area network, comprising multiport repeaters.	30-06-90	5/12.	186-B ₄ , 187-H, 206-J.	FC.
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1	2	3	4	5	6	7	8
H 01 Q : Aerials.							
165744	18-03-89	NARENDRA KUMAR SHARMA	An invention for improvement in TV signal booster.	06-01-90	17/00.	206-I.	I.
166617	03-12-86	SIEMENS AKTIENGESSELLSCHAFT.	An antenna duct for antenna matching device.	16-06-90	1/32.	206-A.	FC.
167376	18-03-87	NARENDER KUMAR SHARMA	Improvement in power supply unit of TV signal booster.	20-10-90	23/00.	67-C.	I.
H 01 R : Line connectors; Current collectors.							
165823	01-08-86	MITSUBA ELECTRIC MANUFACTURING COMPANY LTD.	Commutator and process for manufacturing the same.	20-01-90	30/04.	63-C	FC.
165839	28-11-85	D.H. HADEN LIMITED.	Electrical socket apparatus.	20-01-90	13/00.	64-B ₃	FC.
166064	16-04-87	KRONE AKTIENGESELLSCHAFT.	Connector bank, for cable wiss, in particular of telephone cables.	10-03-90	9/00.	64-B ₃	FC.
166128	16-10-86	SIEMENS AKTIENGESSELLSCHAFT.	Capture facilitating device for use in sub miniature plug connector assemblies and said assemblies comprising said device	17-03-90	13/24.	64-B ₃	FC.
166270	28-11-86	BEST & CROMPTON ENGINEERING LTD.	An integrated locking plug and socket switching device.	07-04-90	13/707.	64-B ₃ 69-M.	IC.
166392	29-07-82	MITSUBISHI DENKI KABUSHIKI KAISHA.	A batsh inserting test plug for a drawer type relay.	28-04-90	13/52.	69-D.	FC.
166712	03-11-87	KRONE AKTIENGESELLSCHAFT.	Cable connecting element in particular dropwire cables.	14-07-90	13/00.	64-B I.	FC.
166873	02-11-87	KRONE AKTIENGESSELLSCHAFT.	Cutting/clamping terminal element for electrical conductors.	28-07-90	4/00.	48-B.	FC.
167169	17-03-88	KRONE AKTIENGESELLSCHAFT.	Wire connector for cable wires.	15-09-90	9/00, 11/00, 4/00.	48-A, 2-B,	FC.
167173	21-04-86	STRATOFLEX INC.	A machine for assembling a hose and fitting by crimping.	15-09-90	63/048.	150-C- Group- XLVIII(J).	FC.
167363	23-03-88	SIEMENS AKTIENGESSELLSCHAFT.	A backplane for a subrack, having modules.	13-10-90	11/00.	64-B1.	FC.
167382	21-04-86	ALLIED CORPORATION.	A multi-contact electrical connector.	20-10-90	4/58, 13/05.	64-B, I- Group- LVII(4).	FC.
167691	27-03-87	SCHWABLE GMBH.	Power line adopter for example fluorescent light ballast, transformer or the like.	08-12-90	31/06.	64-B1, 31-B.	FC.
167698	28-08-87	WESTINGHOUSE ELECTRIC CORPORATION.	Terminal base assembly for electric meter sockets.	08-12-90	9/00.	64-B ₃ .	FC.

1	2	3	4	5	6	7	8
167802	18-07-86	MAGNETI MARELLI S.P.A.	Brush holder for electrical apparatus with commutators, particularly for starter motors of motor vehicles.	22-12-90	39/38.	133-B, 63-C, Group- LIX(3), LVII(1).	FC.
167870	25-11-87	KRONE AKTIENGESELLSCHAFT.	Connector bank for telecommunication device.	29-12-90	9/00.	187-A.	FC.
H 01 S : Devices using stimulated emission.							
166970	26-09-86	ENERGY CONVERSION DEVICES INC.	Power generating optical filter.	11-08-90	3/00.	186-A.	FC.
167151	02-03-87	VEB KOMBINAT FEINMECHANISCHE WERKE HALLE.	Improved apparatus for the production of CO ₂ laser impulse of higher capacity.	08-09-90	3/086.	194-C-11 206-H ₂	FC.
167152	02-03-87	VEB KOMBINAT FEINMECHANISCHE WERKE HALLE.	Apparatus for internal intensity-modulation of selective wave-length and production of impulsive radiation from highly effective CO ₂ lasers.	08-09-90	3/00.	206 H ₂ H ₄	FC.
167659	10-11-88	1. COSTAS A. DIAMANTO-POULOS. 2. ALEX P. ALEXANDROU.	Device for biostimulation of human/animal tissues.	01-12-90	1/00.	97-G.	F.
H 01 T : Spark gaps; Overvoltage arresters using spark gaps; Sparking plugs; Corona devices; Generating ions to be introduced into non-enclosed gases.							
166508	17-12-85	BBC BROWN BOVERI LTD.	Process for the production of a lightning arrester using an active resistor core made of a voltage-dependent resistance material based on ZnO and lightning arrester produced thereby.	19-05-90	4/00.	68-D.	FC.
167281	20-05-86	ROBERT BOSCH GMBH.	An ignition plug for internal combustion Engine	29-09-90	13/20.	107-F— Group XLVI(2).	FC.
167519	14-04-87	ASTRA-VENT AB.	An apparatus for generating an electric corona discharge in an air flow duct in communication with a human environment.	10-11-90	17/00.	6-B ₂ XLVII(1).	FC.
H 02 : GENERATION, CONVERSION, OR DISTRIBUTION OF ELECTRIC POWER.							
H 02 B : Switchboards, switchyards, or switchgear, for the distribution of electric power.							
166695	18-03-86	BBC BROWN BOVERI LTD.	An insulating gas filled and substantially cuboid shape designed cast housing for a multiphase medium voltage switchgear.	30-06-90	1/08.	69-P... Group- LIX(1)	FC.
167270	22-02-88	SIEMENS AKTIENGESELLSCHAFT.	Housing for electrical switchgear.	29-09-90	1/00, 1/08.	69-P.	FC.
167271	21-03-86	TRYGVE ERIC HVIDSTEN.	Cable splice closure.	29-09-90	15/00. 15/18.	64-B ₁ — Group- LVIII(4).	F.
167657	05-10-87	SIEMENS AKTIENGESELLSCHAFT.	Switch truck for an enclosed electrical switchgear panel.	01-12-90	1/02.	69-P	FC.
167785	28-08-87	BELLORUSSKY GOSUDARSTVENNY UNIVERSITET IMENI V.L. LENINA.	Ac voltage switching device.	22-12-90	1/00.	65-B ₃ , 69-F.	F.C.

1	2	3	4	5	6	7	8
H 02 G : Installation of electric cables or lines.							
165777	21-08-85	RAYCHEM GMBH.	A laminate for sealing an aperture.	06-01-90	15/00.	20-B	FC.
165955	21-01-86	ALSTHOM-ATLANTIQUE SA	Method of manufacturing an insulating stay for bracing high-tension electrical devices.	17-02-90	7/00.	48D2, 4.	FC.
166081	15-05-86	KORONA MESSTECHNIK GOSSAU.	Control apparatus for the electronic detection in alternating current transmission lines of fault locations causing power losses	10-03-90	1/00.	68-D	FC.
167066	08-04-88	NIRMAL SINGH DHARAM SINGH MARAS.	An electrical wiring installation strip.	25-08-90	31/003, 3/24.	68-B-LVII-(3), 48-B-LVII(3).	1.
167697	28-03-87	NAUCINO-PROIZVD-STVENNOE OBIEDJENIE "ELEKTROFARFOR".	Sealed electric lead-in for electrical equipments.	08-12-90	15/00,	64-B ₂ .	FC.
167800	18-07-86	RAYCHEM CORPORATION.	An article suitable for use as a cover for an elongate substrate such as a cable or pipe.	22-12-90	3/04.	151-F— Group-XLVIII (2).	FC.
H 02 H : Emergency protective circuit arrangements.							
165780	28-08-85	CHARBONNAGES DE FRANCE.	A power circuit.	06-01-90	3/20.	68-E ₁	FC.
165981	12-03-86	SIEMENS AKTIENGESELLSCHAFT.	Current transformers and process of producing same.	17-02-90	1/00, 3/00, 7/00.	65 B ₂	FC.
166012	09-10-86	RAMA CHETTIAR SEN-NAIYAN CHETTIAR PONNUSWAMY CHETTIAR AYYATHURAI.	A device for protecting a pump and prime mover.	24-02-90	5/00.	68	1.
166364	22-10-85	WESTINGHOUSE ELECTRIC CORPORATION.	Improvements in or relating to vargenerator having controlled discharge of thyristor switched capacitors.	21-04-90	7/06.	63-1.	FC.
167157	17-06-87	POWERTRON LIMITED.	A circuit for protecting a convertor power supply.	08-09-90	9/00.	68-D.	FC.
167725	21-08-87	BABCOCK & WILCOX TRACY POWER INC.	An overcurrent fault detection system for multiphase AC current control system.	15-12-90	9/00.	63-1.	FC.
167785	28-08-87	BELORUSSKY GOSUDAR-STVENNY UNIVERSITET IMENI V.I. LENINA.	Ac voltage switching device.	22-12-90	1/00.	65-B ₃ , 69-F.	FC.
167827	14-07-87	SIEMENS AKTIENGESELLSCHAFT.	Electronic overcurrent tripping device.	29-12-90	3/42.	69-A.	FC.
H 02 J : Circuit arrangements or systems for supplying or distributing electric power; Systems for storing electric energy.							
166269	29-07-86	BBC BROWN BOVERI LIMITED.	Compensating device for compensating current oscillations.	07-04-90	1/02.	206-H ₃ , 68-E ₁	FC.
166392	29-07-82	MITSUBISHI DENKI KABU SHIKI KAISHA.	A batsh inserting test plug for a drawer type relay.	28-04-90	13/00.	64-B ₃	FC.
166417	28-08-86	ALCATEL.	Miniature variable inductor and method of manufacturing same.	05-05-90	1/04.	69-J.	FC.

1	2	3	4	5	6	7	8
166749	19-01-87	JOHN J. VITHAYATHIL	Apparatus for rapid adjustment of network impedance.	14-07-90	3/18.	186-A.	F.
167379	25-08-87	THE BABCOCK & WILCOX COMPANY	A system for supplying power to switches arranged in a totem pole circuit configuration.	20-10-90	4/00.	69-D.	FC.

H 02 K : DYNAMO-ELECTRIC MACHINES

165753	05-09-85	URBAN TRANSPORTATION DEVELOPMENT CORPORATION LTD.	Primary member for linear induction motor.	06-01-90	9/00, 41/02.	63-A ₂	FC.
165768	18-12-85	URBAN TRANSPORTATION DEVELOPMENT CORPORATION LTD.	A vehicle comprising a linear induction motor secondary having a reaction winding.	06-01-90	41/02. M	63-A ₂ , 134-C.	FC
165845	17-06-86	MAGNETICS RESEARCH INTERNATIONAL CORPORATION.	A variable magnetic reluctance generator.	27-01-90	1/00.	63-I., 63-A ₂ .	FC.
166007	21-01-86	JAQUES RIVKINF.	Generator set for use on a building site.	24-02-90	7/00.	63-T.	FC.
166031	12-01-87	SIEMENS AKTIENGESELLSCHAFT.	Apparatus for detecting and localizing local overheating in liquid-cooled windings of electric machines.	03-03-90	9/24.	98-G.	FC.
166076	23-02-88	SATISH TRIMBAK SANE.	A process of making cores having self mountingmeans.	10-03-90	1/18, 1, . 8.	63-B, 65-B ₂ .	I.
166113	18-12-87	JYOTI LIMITED.	An improved polyphase induction motor.	17-03-90	16/00.	63-A ₂ .	IC.
166400	04-12-85	UNJON SWITCH & SIGNAL INC.	An irreversible clutch.	28-04-90	7/10.	63-I.	FC.
166402	10-08-87	1. DEBAKIRANJAN DUTTA 2. BHUPESH THCNDRC DUTTA.	Electric drive system with intermittent motor.	28-04-90	25/00.	68-C.	I.
166436	19-08-86	STARATFORD VOOGT, JOHAN HENDRIK ZWIEGELAAR, A. AMPRODUKTE AG.	Electrical generator for welding and operating power tool.	05-05-90	17/00.	63-A ₃ .	F, FC.
166464	12-12-86	SIEMENS AKTIENGESELLSCHAFT.	Method for partial discharge detection and breaking spark measurement in dynamoelectric high-voltage machines and an apparatus for performing the method.	19-05-90	13/00.	63-A.	FC.
166579	28-11-86	KERALA ELECTRICAL & ALLIED ENGINEERING CO. LTD.	An improved alternator for use in automobiles and the like.	09-06-90	1/00, 3/00.	63-A.	IC.
166597	10-02-87	1. RAMESH CHANDRA PANDITRAO PALNITKAR. 2. MOHAN RAMESH CHANDRA PALNITKAR & 3. VIVEK RAMESH CHANDRA PALNITKAR.	A moving stator field motor operating on a direct current source.	09-06-90	23/00.	63-I.	I.

1	2	3	4	5	6	7	8
166708	19-01-87	WESTINGHOUSE ELECTRIC CORPORATION.	An installation for generating electricity with a gas turbine generator system.	07-07-90	57/00.	63-I	FC.
166991	12-08-87	MARATHON ELECTRIC MFG. CORPN.	Stator core unit for dynamo-electric machine/A.C. alternator.	18-08-90	1/20.	63-B-LVII(1).	FC.
167001	19-02-86	ADESS SINGH.	A magnetic attraction electric motor with a conductorless rotor.	18-08-90	11/00.	63-A., 21-F.	FC.
167002	18-03-86	URBAN TRANSPORTATION DEVELOPMENT CORPORATION LTD.	A reaction rail assembly forming a secondary of a linear induction motor.	18-08-90	41/02.	63-A ₂ .	FC.
167115	08-05-86	SRF NIPPONDENSO LIMITED.	An alternator for use in vehicles.	01-09-90	17/00.	63-A ₂ .	IC.
167146	21-03-86	KIRLOSKAR ELECTRIC COMPANY LIMITED.	A disc alternator.	08-09-90	3/47, 21/24.	63-A1-Group-LVII(1).	IC.
167235	21-03-86	KIRLOSKAR ELECTRIC COMPANY LIMITED.	A disc armature assembly for disc armature machines and a method of manufacturing the same.	22-09-90	3/30, 3/32.	63-B & F-Group-LVII(1).	IC.
167261	02-01-87	WESTINGHOUSE ELECTRIC CORPORATION.	Dripastic apparatus for an electric generator seal oil system.	29-09-90	9/00.	63-E; I.	FC.
167312	16-04-86	GARRETT MICHAEL SAINSBURY.	A magnetohydrodynamic generator.	06-10-90	44/24.	63-I & 98-I-Groups-LVII(1) & VII(2).	F.
167380	07-10-87	SIEMENS AKTIENGESELLS- CHAT.	Installation for turning a shaft of a turbo set	20-10-90	7/118.	63.	FC.
167417	12-08-87	MARATHON ELECTRIC MANUFACTURING CORPORATION.	An improved multiple pole annular stator core assembly for generator exciter unit.	20-10-90	21/00.	63-A-1, B-LVII(1).	FC.
167418	12-08-87	MARATHON ELECTRIC MANUFACTURING CORPORATION.	Permanent magnet generator-cum-regulated power alternator cum-exciter unit.	20-10-90	21/00.	68-E1-, LVII(3), 63-H- LVII(1).	FC.
167444	26-05-86	LUCA-TVS LIMITED.	A method of manufacture of moulded insulation electric coil and an electric coil manufactured thereby.	27-10-90	3/32.	65-B, 2-Group-LVII(2).	IC.
167658	10-10-88	BIMAN KUMAR PATHAK.	A mechanical regenerative braking device for wheeled vehicle or a rotary machine such as electric motor or generator.	01-12-90	49/00.	127-I.	I.
167645	02-06-87	LA TELEMECANIQUE ELECTRIQUE.	Frequency converter for the power supply of asynchronous motors.	08-12-90	47/00.	63-I.	FC.
H 02 N : Electric machines not otherwise provided for							
167523	23-12-86	UNIQUE MOBILITY, INC.	A lightweight electromagnetic transducer having high power output capability and a dynamo electric machine comprising the same.	24-11-90	2/00.	63-I.	FC.

1	2	3	4	5	6	7	8
167824	12-06-87	KIEVSKY POLITEKHNIK- ESKY INSTITUT IMENI 50- LETIA VELIKOI OKTYA- BRSKOI SOTS IALISTI- CHESKOI REVOLJUTSII.	Piezoelectric motor.	29-12-90	11/00.	63-A.3.	FC.

H 02 P : Control or regulation of electric motors, generators, or dynamo-electric converters; Controlling transformers, reactors or choke coils.

165825	13-01-87	KONE ELEVATOR GMBH.	Device for controlling the direct current motor of a lift in emergency braking.	20-01-90	15/00.	133-A.	FC.
166228	20-01-87	COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH.	An improved three phase motor starter with inbuilt single phase preventor.	31-03-90	1/00, 3/00.	133-B.	IC.
166395	24-10-85	GOVINDARAJALU RAJENDRAN.	Auto restart starters.	28-04-90	1/16.	133	I.
166973	12-08-87	MARATHON ELECTRIC MANUFACTURING CORPORATION.	Alternator voltage regulator system speed responsive control.	11-08-90	9/44.	68-EI-LVII(3).	FC.
167061	12-08-87	MARATHON ELECTRIC MANUFACTURING CORPORATION.	Regulated alternator with a positive fault related shut down apparatus to prevent damage to the alternator and/or the connected loads.	25-08-90	9/00.	68-EIL-VII(3), 63H-LVII (1).	FC.
167109	02-09-87	THE BABCOCK & WILCOX COMPANY.	A control device for an electric motor.	01-09-90	5/00.	133-A.	FC.
167359	13-07-87	BELORUSSKY GOSUDARSTVENNY UNIVERSITET IMENI V. I. LENINA.	Rectifier electric drive device.	13-10-90	6/00.	65-A ₂ .	FC.
167416	12-08-87	MARATHON ELECTRIC MANUFACTURING CORPORATION.	An improved voltage regulator for single/3-phase alternator.	20-10-90	9/00.	68-E-LVII(3), 63-IDLVII (1).	FC.
167722	17-06-87	E. I. DU PONT DE NEMOURS AND COMPANY.	A system useful for continuously propelling linear synchronous motor secondaries along an elongated linear motor primary.	15-12-90	5/00.	133-A.	FC.

H 03 : BASIC ELECTRONIC CIRCUITARY.

H 03 B : Generation of oscillations, directly or by frequency-changing, by circuits employing active elements which operate in a non-switching manner; Generation of noise by such circuits.

167512	06-01-87	DR. DEVENDRA KUMAR KAUSHIK, DR. SANTOSH KUMAR CHATTOPADHYAYA, DR. NARENDRA NATH.	Doubly oscillating quartz crystal monitor (DQM).	10-11-90	5/32.	194-B-LXIII-(4), 206E-LXII 126-D-LVIII(6).	I.
167513	06-01-87	DR. DEVENDRA KUMAR KAUSHIK, DR. SANTOSH KUMAR CHATTOPADHYAYA, DR. NARENDRA NATH.	Single oscillation thin film thickness monitor.	10-11-90	5/32.	194-B-LXIII(4) & 206-LXII.	I.

1	2	3	4	5	6	7	8
H 03 C : Modulation.							
167082	27-01-86	BBC BROWN BOVERI LTD.	Single-sideband modulator.	25-08-90	1/52. 3/40.	206-H4. & I.	FC.
H 03 D : Demodulation or transference of modulation from one carrier to another.							
167265	09-03-87	OKI ELECTRIC INDUSTRY CO. LTD.	Equalizing circuit.	29-09-90	13/00.	68-I.	FC.
H 03 E : Amplifiers.							
165780	28-08-85	CHARBONNAGES DE FRANCE.	A power circuit.	06-01-90	1/52.	68-E ₁ .	FC.
166433	22-07-86	DAVID GEORGE BEALE, JOHN DUMERGUE CHARTERS.	Composite audio amplifier.	05-05-90	3/00.	206-E ₁ . H ₁ .	I.
H 03 H : Impedance networks, e. g. resonant circuits ; Resonators.							
167705	18-07-86	PLESSEY OVERSEAS LIMITED.	Low frequency digital notch filter.	08-12-90	17/02.	65-A ₄ . Group LVI(2).	FC.
167744	18-07-86	PLESSEY OVERSEAS LIMITED.	Interpolator/decimator filter structure.	13-12-90	17/00.	186-A - Group LXI(1).	FC.
167745	18-07-86	PLESSEY OVERSEAS LIMITED.	Interpolator or decimator filter structure.	15-12-90	17/04.	186-A- Group- LXI(1).	I.C.
H 03 J : Tuning resonant circuits; Selecting resonant circuits.							
167293	14-12-87	PIECO ELECTRONICS AND ELECTRICALS LTD.	An improved electronic frequency tuning circuitry for use in a radio frequency receiving apparatus such as radio or television.	06-10-90	5/24.	206 E K LXII.	I.C.
H 03 K : Pulse technique.							
165874	14-08-85	TANDEM COMPUTERS INCORPORATED.	A driver unit for a three state gate array using low driving current.	03-02-90	17/60.	67, 69.	FC.
165907	12-09-86	WESTINGHOUSE ELECTRIC CORPORATION.	Static var generators.	10-02-90	17/292.	67, 69.	I.C.
166023	28-10-85	INTERNATIONAL BUSINESS MACHINES CORPORATION.	A magnetically detented actuator for keyboard.	03-03-90	17/97.	69.	FC.
166096	13-07-87	LGZ LANDIS & GYR ZUG AG.	Electrical switching circuits for use between a signal source and a four pole device.	10-03-90	17/00.	206 E.	FC.
166915	16-11-87	KRONOS INC.	A system for fixed length binary encoding and decoding.	04-08-90	13/00.	206 E, 29 D.	FC.
167009	10-07-86	KLOCKNER HUMBOLDT-DEUTZ AKTIENGESELLSCHAFT.	A pulse generator for a lapping machine.	18-08-90	3/00, 4/00.	40-F & 194-B.	FC.
167048	12-03-86	JEUMONT-SCHNEIDER.	Apparatus for monitoring the period of separation of impulses.	25-08-90	5/19.	206-E- Group- LXII.	FC.
167373	27-10-86	WESTINGHOUSE ELECTRIC CORPORATION.	A digital gate pulse generator.	20-10-90	3/02	206-G.	FC.

1	2	3	4	5	6	7	8
167431	16-04-86	JEUMONT-SCHNEIDER.	An apparatus for controlling the instant of opening of an interrupter.	27-10-90	5/153.	69-I-Group-LIX(1).	FC.
167760	25-02-87	KOLIMORGEN TECHNOLOGIES CORPORATION.	Process for the manufacture of plastic articles having a metallic pattern on their surfaces.	15-12-90	3/10.	152-E-XII(2).	FC.

H 03 L : Automatic control, starting synchronisation, or stabilisation of generators of electronic oscillations or pulses.

167378	14-08-87	THE BABCOCK & WILCOX COMPANY.	Apparatus for concealing and permitting access to a portion of a control panel module.	20-10-90	7/00	206-E.	FC.
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H 03 M : Coding; Decoding or code conversion in general.

167264	02-03-87	OKI ELECTRIC INDUSTRY CO. LTD.	Analog-digital hybrid integrated circuit.	29-09-90	1/00	206-E.	FC.
167423	19-02-88	NANDAKUMAR RAMA-CHANDRA JOSHI.	Phase correlated integration type electronic analog to digital converter.	27-10-90	1/12.	67-C-LI(2). 1. 206E-LXII 126-CLVIII (6).	
167424	19-02-88	NANDAKUMAR RAMA-CHANDRA JOSHI.	Multichannel electronic analog to digital converter.	27-10-90	1/12.	67C-LI(2). 1. 206E- LXII.	

H 04 : ELECTRIC COMMUNICATION TECHNIQUE.

H 04 B : Transmission

165843	27-05-86	HITACHI LTD.	Apparatus for system structure recognition for a multi-loop transmission system.	27-01-90	14/00.	186, 29-A.	FC.
165870	01-05-86	SIEMENS AKTIENGESELLSCHAFT.	An improved transmitter which can be turned over widerfrequency band.	03-02-90	1/02.	206-E.	FC.
166184	17-04-86	THE GENERAL ELECTRIC COMPANY P.L.C.	Relay for determining whether a single phase to ground fault occurring in a poly phase electric power transmission system is within a predetermined distance of a monitoring point.	24-03-90	3/00.	69-B & D.	FC.
166709	08-07-87	SHRI KAMALESH DEKA.	A device for noiseless communication in radio frequency wave range using continuous wave (CW) mode.	07-07-90	15/00.	206-E.	1.
166922	19-12-85	INSTITUTE FRANCAIS DUPETROLE.	A device for receiving acoustic waves in water.	04-08-90	1/59.	168-E-Group-LI(4).	FC.

H 04 J : Multiplex communication

166482	07-10-85	THE GENERAL ELECTRIC COMPANY P.L.C.	Digital time division communications apparatus.	19-05-90	5/00.	186-B ₁	FC.
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1	2	3	4	5	6	7	8
167186	24-03-86	PLESSEY OVERSEAS LIMITED.	Switching arrangements for digital telecommunications exchange systems.	15-09-90	3/00.	187-C ₁	FC.
167483	27-05-86	TELEFONAKTIEDOACET LMERICSSON.	System for establishing wide band connection in a switching network.	10-11-90	1/00	206-B ₁	FC.

H 04 L : Transmission of digital information, e.g. telegraphic communication.

165797	26-08-86	SIEMENS AKTIENGESELLSCHAFT.	Circuit arrangement for the transmission of data signals between control devices connected to one another via a loop system.	13-01-90	19/00.	186	FC.
165798	26-08-86	SIEMENS AKTIENGESELLSCHAFT.	Circuit arrangement for the transmission of data signals between control devices connected to one another via a loop system.	13-01-90	19/00.	186.	FC.
165982	30-04-86	THE BABCOCK & WILCOX COMPANY.	On line serial communication interface device to a transmitter from a current loop.	17-02-90	1/22.	186.	FC.
166011	01-07-85	JEUMONT-SCHNEIDER.	A device for the determination of the last intermediate node of a pathway.	24-02-90	11/00, 5/00.	186-A.	FC.
166387	26-08-86	SIEMENS AKTIENGESELLSCHAFT.	Circuit arrangement for the transmission of data signals between control devices connected to one another via a loop system.	28-04-90	19/00.	186-B.	FC.
166388	26-08-86	SIEMENS AKTIENGESELLSCHAFT.	A data transmission system.	28-04-90	19/00.	206-E.	FC.
167186	24-03-86	PLESSEY OVERSEAS LIMITED.	Switching arrangements for digital telecommunications exchange systems.	15-09-90	5/00,	187-C ₁ & 3.	FC.

H 04 M : Telephonic communications

165967	08-10-85	ALCATEL AUSTRIA GMBH.	circuitry for telephone systems	17-02-90	19/00.	187-H.	FC.
166644	15-11-85	ALCATEL N.V.	Apparatus for establishing communication paths.	30-06-90	9/00.	187-F.	FC.
167185	25-03-86	JEUMONT-SCHNEIDER.	An apparatus for control of a hands free telephone set operating in alternation between sending and receiving.	15-09-90	7/10.	187-E ₄ -& F-LXI (2).	FC.
167616	06-03-87	GEC PLESSEY TELECOMMUNICATIONS LIMITED.	Circuit for generating ringing signals for a telephone system.	24-11-90	1/00.	187-F- LXI(2).	FC.
167618	11-03-87	GEC PLESSEY TELECOMMUNICATIONS LIMITED.	A microprocessor back-up system for the main processors of a digital telephone array.	24-11-90	3/00.	187-C ₄ - XI(2).	FC.

1.	2.	3.	4.	5.	6.	7.	8.
167713	20-05-86	GEC PLESSEY TELECOM- MUNICATIONS LIMITED.	A telecommunications ex- change, particularly for hand- ling digital data or digitised voice signals.	08-12-90	13/00, 7/00.	187-C ₁ , Group- LXII(2).	FC.
			H 04 N : Pictorial communication, e.g. television.				
165749	03-08-86	KRONE GMBH.	Apparatus for adjusting the pulse of a digitized composite video signal.	06-01-90	1/32.	186-E.	FC.
165865	05-03-86	OY LOHIA AB.	A colour display device.	03-02-90	9/68	194-C ₁ , 186.	FC.
166029	23-12-85	INTERNATIONAL BUSI- NESS MACHINES CORPO- RATION.	A graphic image processing system for two dimensional images.	03-02-90	1/21, 1/387.	186-E.	FC.
166261	28-10-85	INTERNATIONAL BUSI- NESS MACHINES CORPO- RATION.	A control system for control- ling an image scanner.	07-04-90	5/00.	186-E.	FC.
166316	18-09-86	VIDEOCOLOR.	Cathode-welding mechanism for electron gun.	07-04-90	9/00.	129-Q.	FC.
166329	27-06-86	TERENCE JOHN NEWELL.	Device for preventing un- authorised outgoing calls on telephone line.	14-04-90	1/66.	187.	F.
166455	28-05-86	VIDEOCOLOR.	Method and device for illuminating the face plate of a color television tube for formation of the screen.	12-05-90	3/00.	194-C ₁ .	FC.
166683	28-05-86	VIDEOCOLOR.	Method for manufacturing the screen of a color cathode ray tube, especially of the perforated mask type.	30-06-90	5/00	194-C ₁ & 2a.	FC.
166685	10-06-86	VIDEOCOLOR.	An apparatus for checking the evaporation of the pellet of getter material on the walls of the envelope of a cathode ray tube.	30-06-90	9/00.	194-C ₁ .	FC.
166699	27-06-85	VICTOR COMPANY OF JAPAN LTD.	Video signal recording and reproducing apparatus.	30-06-90	5/76.	186-E.	FC.
166700	27-06-85	VICTOR COMPANY OF JAPAN LTD.	Video signal recording and reproducing apparatus.	30-06-90	5/76.	186-E.	FC.
167248	25-04-86	INTERNATIONAL BUSI- NESS MACHINES CORPO- RATION.	Colour image display system using single colour lookup table.	29-09-90	9/64.	2-A ₁ &+ 186E- Group- XLI(1)3 & LXI(1).	FC.
			H 04 Q : Selecting.				
166101	12-03-86	BSH ELECTRONICS LIMITED.	Signal separating device for separating a radio signal from a heating element of an electrically heated window of a motor vehicle.	17-03-90	7/02, 15/00.	168-C & 206(C+E)	FC.
167185	25-03-86	JEUMONT-SCHNEIDER.	An apparatus for control of a hands free telephone set operating in alternation between sending and receiving.	13-09-90	1/10, 3/14.	187-E ₄ & F-LXI(2).	FC.

1.	2.	3.	4.	5.	6.	7.	8.
H 04 R : Electromechanical transducers.							
165815	23-02-85	DYMAX CORPORATION.	Broadband ultrasonic trans- ceiver.	17-03-90	3/00.	206-E & 128G.	FC.
167774	10-04-89	PEICO ELECTRONICS AND ELECTRICALS LIMITED.	An improved driver system for use in an electromechani- cal transducer.	22-12-90	9/00, 1/20.	187-E-2-3- LXI(2).	TC.
H 05 : ELECTRIC TECHNIQUES NOT OTHERWISE PROVIDED FOR .							
H 05 B : Electric heating; Electric lighting not otherwise provided for.							
165810	18-12-85	AERUSPATIALE SOCIETE NATIONALE INDUSTRIEL- LE.	A device for deicing a wing structure.	13-01-90	3/10, 3/16, 3/20.	98-A..	FC.
165993	20-02-85	N. V. BEKAERT S.A.	Induction heating apparatus for heating elongate metal articles.	24-02-90	5/00.	98-E.	FC.
166084	13-08-86	VSESOJUZNY NAUCHNO- ISSLEDOVATELSKY, PRO- EKTNOKONSTRUKTORSKY ITEKHNOGICHESKY INSTITUT ELEKTRO TER- MICHESKOGO OBORUDO- VANIA (VNIETO).	Induction plasma installation.	10-03-90	7/20.	97-E, 40.	FC.
166176	12-09-85	RAYCHEM CORPORATION	Modular electrical heater and a method of making the same.	24-03-90	3/12	97-F.	FC.
166845	27-04-87	UNITED TECHNOLOGIES CORPORATION.	An apparatus for controlling a variable speed wind turbine- generator at improved effi- ciency and at other than a criti- cal speed.	28-07-90	13/00.	190-D	FC.
166974	23-09-87	BHABHA ATOMIC RE- SEARCH CENTRE.	A telescopic electrode seal- device for use in a completely closed electric arc furnace and such a furnace having the same.	11-08-90	3/04.	97-B+F- LIX(2)- 181-XLV (6)	IC:
167446	29-05-86	ELKEM 9/5.	Apparatus for removing a casing from an elongate body.	27-10-90	3/03.	97B, 97C- Group- LIX(2).	FC.
167659	10-11-88	1. COSTASA, DIAMANTO- POULOS. 2. ALEX P. ALEXANDROU.	Device for biostimulation of human/animal tissues.	01-12-90	6/64.	97-G.	F.
167714	26-05-86	RAYCHEM CORPORA- TION.	A sheet heater and a method of making it.	08-12-90	3/10, 3/20.	31C, 97H, FC. 97F, Group- LVIII(2), LIX(2).	FC.
167759	13-01-87	POZEL S.A.	A method for the production of a heating element.	15-12-90	3/00.	98G- VII(1).	FC.
H 05 G : X-ray technique.							
166462	09-12-86	B. V. OPTISCHE INDUST- RIE DE OUDE DELFT.	Piezoelectric attenuation tongue system for slit radio- graphy equipment.	19-05-90	1/26.	148-H	FC.
H 05 H : Plasma technique; Production of accelerated electrically-charged particles or of neutrons; Production of acceleration of neutral molecular or atomic beams.							
166710	17-02-87	CUMMINS ENGINE COMPANY INC.	Plasma jet ignition apparatus.	07-07-90	15/00.	40-F.	FC.

1.	2.	3.	4.	5.	6.	7.	8.
166917	15-05-86	LGZ LANDIS & GYR ZUG AG.	An integrated circuit device having an integrated hall element and an electricity meter having said device.	04-08-90	13/00.	206-E	FC
H 05 K : Printed circuits; Casings or constructional details of electric apparatus; Manufacture of assemblages of electrical components.							
166128	16-10-86	SIEMENS AKTIENGESELLSCHAFT.	Capture facilitating device for use in subminiature plug connector assemblies and said assemblies comprising said device.	17-03-90	7/12.	64-B	FC.
166193	14-05-87	NORTH AMERICAN PHILIPS CORPORATION.	A surface-mounted electrical device with axial leads.	24-03-90	13/00.	31-A,B,C	FC
167116	15-05-86	LGZ LANDIS & GYR ZUG AG.	An integrated circuit device having at least one integrated hall element.	01-09-90	13/00.	206-E.	FC.
167401	23-04-86	ELECTROVERT LIMITED.	Process and apparatus for soldering a prefluxed element, such as, wave soldering surface mounted devices to a prefluxed printed wiring board.	20-10-90	3/34.	129-N- Group- XXXV(1).	FC.

REGISTRATION OF DESIGNS

The following designs have been registered. They are not open to inspection for a period of two years from the date of registration except as provided for in Section 50 of the Designs Act, 1911.

The date shown in the each entries is the date of the registration of the design included in the entry.

Class 1. No. No. 164043. Philippe Charriol, French National of 66, Black's Link, Hong Kong. "Spectacles". Priority date July 24, 1991.

Class 1. Nos. 164109 & 164110. Rediant Industries, 250-D, Udyog Bhavan, Worli, Bombay-400025, Maharashtra, India, Indian Sole Proprietary Firm. "Statue". February 19, 1992.

Class 1. No. 164111. Rediant Industries, 250-D, Udyog Bhavan, Worli, Bombay-400025, Maharashtra, India, Indian Sole Proprietary Firm. "Idol". February 19, 1992.

Class 1. No. 164299. Castrol India Ltd., Indian Company, White House, 91, Walkeshwar Road, Bombay-400006, Maharashtra, India. "Container". April 28, 1992.

Class 3. No. 163997. Wipro Limited, Indian Company of Bakhtawar, 14th Floor, 229, Nariman Point, Bombay-400021, Maharashtra, India. "Bettle". January 10, 1992.

Class 3. No. 164004. Ajay Home Products (P) Ltd., C-114, Nariana Industrial Area, Phase-I, New Delhi-110028, India, Indian Company. "Tooth Brush". January 15, 1992.

Class 3. No. 164138. Luxor Pen Company, 229-Okhla Industrial Estate, Phase-III, New Delhi-110028, India, Indian Company. "Ball Pen". March 6, 1992.

Class 3. No. 164141. Luxor Pen Company, 229-Okhla Industrial Estate, Phase-III, New Delhi-110020, India, Indian Company. "Pen Clip". March 6, 1992.

Class 3. No. 164142. Luxor Pen Company, 229-Okhla Industrial Estate, Phase-III, New Delhi-110020, India, Indian Company. "Pen Clip". March 6, 1992.

Class 3. No. 164300. Castrol India Limited, Indian Company, of White House, 91, Walkeshwar Road, Bombay-400006, Maharashtra, India. "Container". April 28, 1992.

Class 4. No. 163998. Wipto Limited, Indian Company of Bakhtawar, 14th floor, 229, Nariman Point, Bombay-400021, Maharashtra, India. "Bottle". January 10, 1992.

Class 4. No. 164481. Sharma Chemicals of 161/1 Mahatma Gandhi Road, Calcutta-700007, W.B., Indian Partnership Firm. "Bottle". June 25, 1992.

Class 10. No. 164114. ICT Industries, Indian Partnership Firm of Swastik Industrial Compound, Chincholi Bonder Road, Malad (West), Bombay-400064, Maharashtra, India. "Footwear". February 21, 1992.

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Nos. 158638 to 158651—Class 3.

Nos. 158652 to 158665—Class 10

R. A. ACHARYA
Controller General of Patents,
Designs and Trade Marks.